

PANDUAN LENGKAP MACRO DAN VBA MICROSOFT EXCEL



PENGANTAR

Macro adalah sederetan fungsi dan perintah program yang disimpan dalam menu Visual Basic. Microsoft Excel menyediakan fitur untuk merekam aktivitas yang dilakukan oleh penggunanya melalui *tools -> macro -> record new macro*. Record new macro berguna untuk merekam aktivitas yang dilakukan dan merubahnya menjadi baris-baris program. Namun macro juga dapat digunakan oleh user untuk membuat perintah atau procedure melalui bahasa VBA atau Visual Basic for Application yang cukup populer, sederhana dan mudah untuk dipelajari. Semakin besar pemahaman anda tentang bahasa VBA maka semakin banyak dan canggih pula prosedur atau perintah-perintah yang dapat anda buat untuk memudahkan pekerjaan anda dengan Microsoft Excel.

Example Code Macro Dasar Bagi Pemula Buku kami ini disusun dari berbagai Sumber sebagai Panduan Singkat bagi pemula untuk dapat mengenal konsep dasar macro yang disertai contoh yang dapat diapresiasi di buku kerja excel Sudah Tentu buku ini sangat jauh dari yang diharapkan.

Namun kami berharap semoga sedikit dapat membantu dalam Dalam Belajar Mendalami Microsoft khususnya Excel VBA dapat pula untuk Membuat Aplikasi Sederhana Sesuai keperluan di lingkungan kerja Anda, kritik dan saran membangun selalu kami harapkan. Semoga buku dapat bermanfaat.

Medan, 4 April 2020

Penulis

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BAB I

Tentang macro dan Kosa kata dasar dalam VBA

ActiveWorkbook	: File yang sedang Terbuka
Active Worksheet	: Sheet yang Tampil
Worksheet	: Sheet
Sheet("sheet1")	: Nama Sheet1
Worksheet("sheet1")	: Nama Sheet1
Range	: Alamat Cell
Range("A5")	: sama dengan Cell A5
Range("A5:A20")	: Cell A5 sampai A20
Range("A5")	: Baris no 1, Kolom no 5
Range("A5")	: disingkat Cell(1,5)
Selection	: Cell Pilihan (blok atau kursor)
Select	: Pilihan yang dituju
Range("A5"). Select	: Menuju ke Cell A5
Sheet1.Select	: Menuju ke Sheet1

Sheet(1).Select : Sheet berdasarkan urutan sheet
Sheet("data") : Sheet berdasarkan Nama sheet

Value = : Isi
Value = " " : Isi Cell Kosong

Worksheet("sheet1").Range("A5:A20").Value = ""

Sub Modul1 () : Memulai suatu Prosedur
End Sub : Mengakhiri suatu Prosedur

Sheet1.Range("A1:C1").Copy Destination:=Sheet2.Range("A1")
: Sheet1copy dan paste di sheet 2

Protect : Mengunci agar tidak dapat di edit
ActiveSheet.Protect : Mengunci Sheet Active
ActiveSheet.unProtect : membuka kunci Sheet Active

Sheet1.Visible = 1 : Sembuyikan Sheet1
Sheet1.Visible = 2 : Jangan Sembuyikan Sheet1
Sheet1.Visible = True : Sembuyikan Sheet1
Sheet1.Visible = False : Jangan Sembuyikan Sheet1

Private Sub UserForm_Initialize()

: Perintah otomatis saat UserForm muncul

Show : Tampil atau aktif

UserForm1.Show : UserForm1. Tampil

Unload me : UserForm ditutup

Hide : Disembunyikan

Hide me : UserForm yang aktif disembunyikan

ColumnWidth = 12 : ukuran Tinggi Kolom

RowHeight = 15 : ukuran Lebar Baris

ActiveCell.EntireColumn.ColumnWidth = 12

ActiveCell.EntireRow.RowHeight = 15

ListBox1.List(ListBox1.ListIndex, 1) :

Menampilkan data baris sesuai no kolom pd listbox1

TextBox1.Value = ListBox1.List(ListBox1.ListIndex, 1)

`TextBox2.Value = ListBox1.List(ListBox1.ListIndex, 2)`

`RowSource` : Nama range yang ditampilkan pd listbox

`RowSource = Worksheets(1).Range("A1:A10").Address`

`PrintOut` : Perintah Cetak
`from:=1,` : Dari Halaman
`To:=1,` : Sampai Halaman
`Copies:=1` : Jumlah Lembar

`ActiveSheet.PrintOut from:=1, To:=1, Copies:=1`

`PrintOut Preview` : Menampilkan halaman Cetak

`ActiveSheet.PrintOut Preview:=True, From:=1, To:=2, Copies:=2`

`Row.Hidden` : Sembunyikan baris jika = true
`Rows("5").` : Baris Ke -5

`Rows("5").EntireRow.Hidden = True`
`Rows("7").EntireRow.Hidden = False`

EntireRow.Insert : Menambah baris

EntireRow.Delet : Menghapus baris

ActiveCell.EntireRow.Insert

ActiveCell.EntireRow.delet

Columns(8).Hidden : Sembunyikan kolom 8

Columns(8).Hidden = True : Sembunyikan kolom jika = true

ActiveSheet.Columns(8).Hidden = True

ActiveSheet.Columns(9).Hidden = False

Insert Shift:=xlRight :Menambah Kolom

Delete Shift:=xlToLeft :Menghapus Kolom

ActiveSheet.Columns(6).Insert Shift:=xlRight

Columns("F:F").Select

Selection.Delete Shift:=xlToLeft

True : Kondisi benar

False : Kondisi salah

Application.Visible = True : Sembuyikan lembar Kerja = True
Application.Visible = False: Jangan sembunyikan lembar Kerja = False

Private Sub : Perintah otomatis saat
Private Sub Workbook_Open()
: Perintah otomatis saat Workbook di buka

Private Sub Workbook_Open()
Application.Visible = False : Lembar Kerja kondisi Tampil
UserForm1.Show : UserForm1 tampilkan
Application.Visible = True : Lembar Kerja tidak ditampilkan
End Sub : Mengakhiri Prosedur

Private Sub Worksheet_SelectionChange
: Perintah otomatis pada sheet active

Private Sub Worksheet_SelectionChange(ByVal Target As Range)
Sheets("Sheet1").Range("A1") = "Belajar VBA"
End Sub

SelectionChange : Kondisi otomatis saat cell seleksi

Range("A1") = "Belajar VBA" : Menulis Belajar VBA di cell A1
Font.FontStyle = "Italic" : Jenis Text
Font.Size = 14 : Ukuran Text

```
Sheets("sheet1").Range("A1").Font.FontStyle = "Italic"  
Sheets("sheet1").Range("A1:A5").Font.Size = 14
```

Font.FontStyle = "Italic" : Jenis tulisan italic
Font.Size = 14 : ukuran tulisan 14

Borders.LineStyle : Border Cell

```
Range("a5:e5").Borders.LineStyle = xlContinuous
```

Borders.LineStyle = xlContinuous : border jenis diborder setiap satu cell

Font.ColorIndex = 3 : Warna Text
Interior.ColorIndex = 4 : Warna Cell

```
Sheets("sheet1").Range("A2").Font.ColorIndex = 3  
Sheets("sheet1").Range("A2").Interior.ColorIndex = 4
```

Tabel Kode Warna

1	11	21	31	41
2	12	22	32	42
3	13	23	33	43
4	14	24	34	44
5	15	25	35	45
6	16	26	36	46
7	17	27	37	47
8	18	28	38	48
9	19	29	39	49
10	20	30	40	50

Pengaturan Penulisan

`Range("A1").NumberFormat = "General"`

NumberFormat : Format Angka

`Range("A1").NumberFormat = "0000000000"`

`Range("A1").NumberFormat = "dd/mm/yyyy"`

`Range("A1").NumberFormat = "[$-421]dd mmmm yyyy"`

Currency Mata Uang

`Range("A1").NumberFormat = "$#,##0.00"`

Accounting

`Range("A1").NumberFormat = "_(($* #,##0.00_);_($* (#,##0.00);_($* ""-""??_);_(@_)"`

Date atau Tanggal

`Range("A1").NumberFormat = "yyyy-mm-dd;@"`

Time atau menit

`Range("A1").NumberFormat = "h:mm:ss AM/PM;@"`

Percentase %

`Range("A1").NumberFormat = "0.00%"`

Fraction

`Range("A1").NumberFormat = "# ?/?"`

Scientific

`Range("A1").NumberFormat = "0.00E+00"`

Text atau Hurup

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```
Range("A1").NumberFormat = "@"
```

Special

```
Range("A1").NumberFormat = "00000"
```

Custom

```
Range("A1").NumberFormat = "$#,##0.00_);[Red]($#,##0.00)"
```

Contoh Penulisan

Sub pengatuaranCell ()

```
Sheets("Sheet1"). Range("A1").NumberFormat = "00000"
```

End Sub

Selection Select

Bergeser satu cell ke kanan

```
ActiveCell.Offset(0, 1).Select '
```

Menuju ke cell paling bawah yang terahir di Isi

```
ActiveCell.End(xlDown).Select'
```

Pindah ke cell yang di bawahnya satu baris

```
ActiveCell.Offset(1, 0).Select '
```

mengisi cell A1 dengan konten "Hello"

```
Worksheets("Sheet1").Range("A1").Value = "Hello"
```

Mengisi cell yang aktif sesuai dengan kata yang di ketik di

```
textbox1ActiveCell.Value= TextBox1.Text '
```

Mengisi cell tertentu via input box shg user diminta isi user box dulu kemudian otomatis cell tertentu akan terisi sesuai isian input box

```
Range ("a1").value = Inputbox ("pertanyaan")
```

Memanggil sheet sesuai dengan urutannya

```
sheet2.select
```

Memanggil sheet sesuai dengan nama sheet nya

```
sheet("databased").select
```

Menuju baris terakhir

```
BarisTerakhir = Worksheets("Sheet1").Cells(Rows.Count, 1).End(xlUp).Value
```

cari baris kosong pertama di database

```
iRow =ws.Cells(Rows.Count, 1) _  
.End(xlUp).Offset(1, 0).Row
```

Menuju ke alamat cell spesial paling awal/atas dan ujung bawah/terakhir sheet

```
Range(Selection, ActiveCell.SpecialCells(xlLastCell)).Select
```

Menuju ke alamat cell paling ujung bawah/terakhir

```
sheetActiveCell.SpecialCells(xlLastCell).Select
```

Menuju ke alamat cell paling atas, bawah, kiri, kanan

```
Selection.End(xlUp).Select 'atas
```

```
Selection.End(xlDown).Select 'bawah
```

```
Selection.End(xlToLeft).Select 'kiri
```

```
Selection.End(xlToRight).Select 'kanan
```

Dari tempat cell berada sekarang diblok sampai ke alamat cell paling atas, bawah, kiri, kanan

```
Range(Selection,Selection.End(xlUp)).Select
```

```
Range(Selection,Selection.End(xlDown)).Select
```



```
Range(Selection,Selection.End(xlToLeft)).Select  
Range(Selection,Selection.End(xlToRight)).Select
```

menuju ke cell turun 5 baris dan kekiri 3 kolom, dari tempat cell berada sekarang
`ActiveCell.Offset(5, -3).Select`

menuju ke cell naik 3 baris dan kekanan 4 kolom, dari tempat cell berada sekarang
`ActiveCell.Offset(-3, 4).Select`

memilih range / blok tertentu dan melanjutkan atau menambah range / blok dari blok yang sudah ada

```
Range("Database").Select  
Selection.Resize(Selection.Rows.Count+ 5, _  
Selection.Columns.Count).Select
```

memilih range / blok tertentu kemudian melompat ke cell tertentu dan melanjutkan atau menambah range / blok yang sudah ada

```
Range("Database").Select  
Selection.Offset(4, 3).Resize(Selection.Rows.Count+ 2, _  
Selection.Columns.Count+ 1).Select
```

Tentang macro

1. Penegertian VBA

VBA atau Visual Basic for Application adalah sebuah bahasa pemrograman yang dibuat oleh Microsoft dan dapat digunakan untuk meningkatkan kemampuan aplikasi Office, termasuk di dalamnya Excel.

Macro sendiri adalah kumpulan command dan prosedur untuk melakukan tugas tertentu, disimpan dalam bentuk modul pada file Excel. Macro dapat dipanggil untuk menanggapi suatu kejadian (event) seperti suatu klik pada tombol.

2. MEMULAI MACRO

Untuk memulai membuat dan menggunakan VBA Macro Harus Terlebih dahulu mengaktifkan Macro di Komputer ini,

Toolbar Developer tab pada microsoft excel secara default tidak ditampilkan, jadi sebelumnya kita harus terlebih dahulu menampilkannya

Pengertian developer

Developer Tab adalah tampilan menu Ribbon di Microsoft Office yang berisi menu-menu digunakan untuk melakukan aktivitas pembuatan program menggunakan Makro maupun VBA (Visual Basic for Application).

Langkah-langkah untuk Mengaktifkan Developer Tab

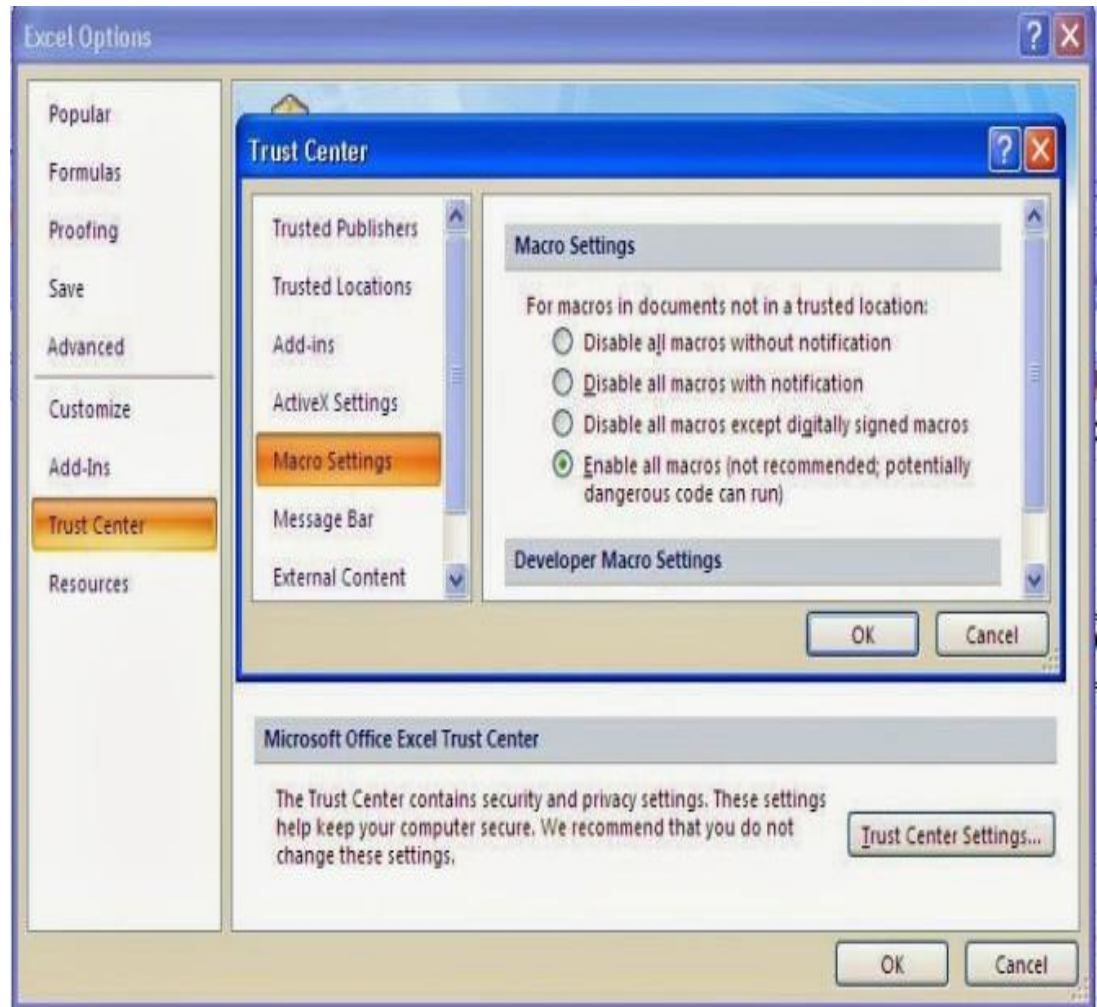
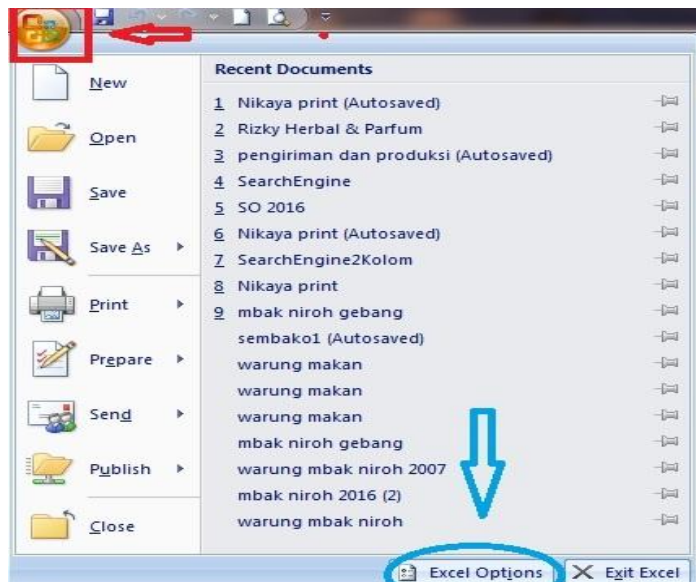
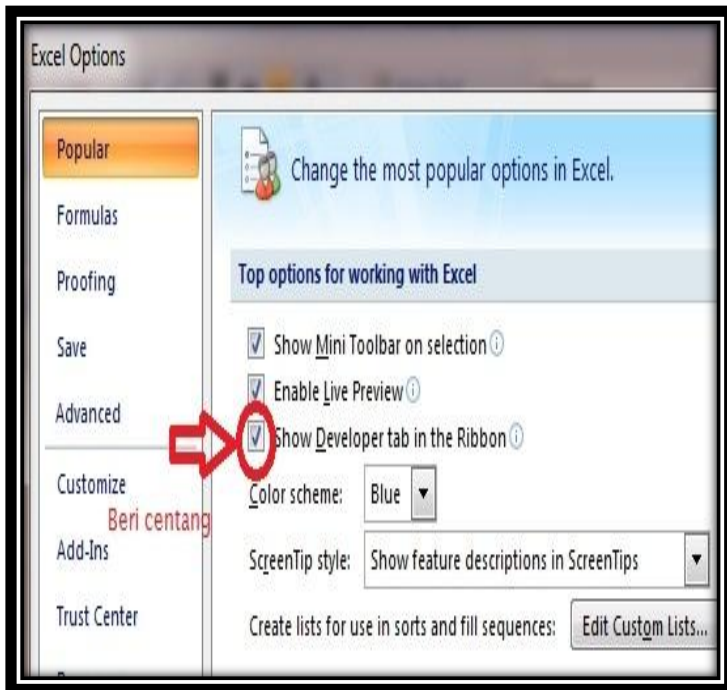
1. Jalankan aplikasi Microsoft Excel

2. Klik **Option** di sebelah kiri untuk memunculkan dialog **Excel Options**

Mengaktifkan tab Developer pada toolbar Microsoft Excel yaitu :

klik pada **office button** sebelah kanan lalu klik tombol **Excel Option** dan pilih popular dan centang **Show Developer Tab in Ribbon**

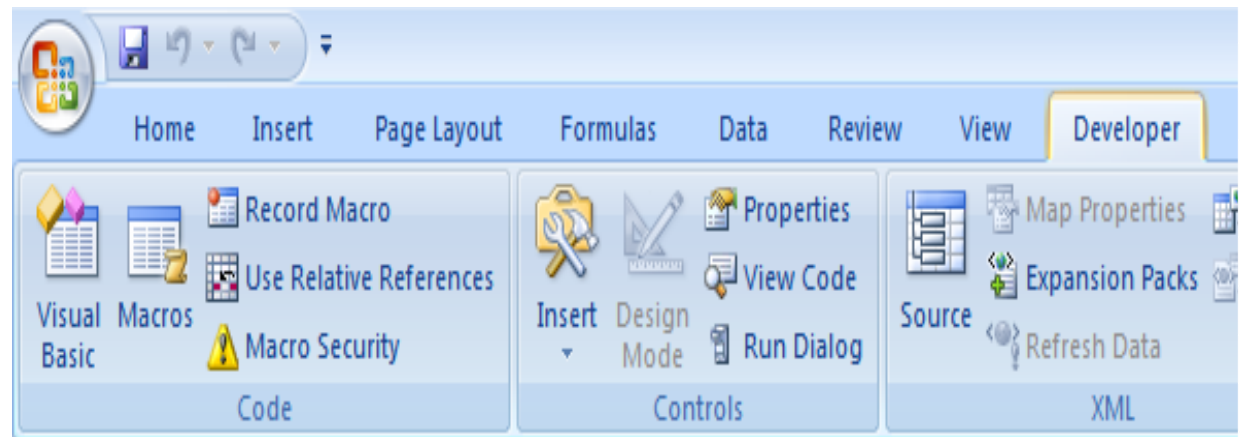
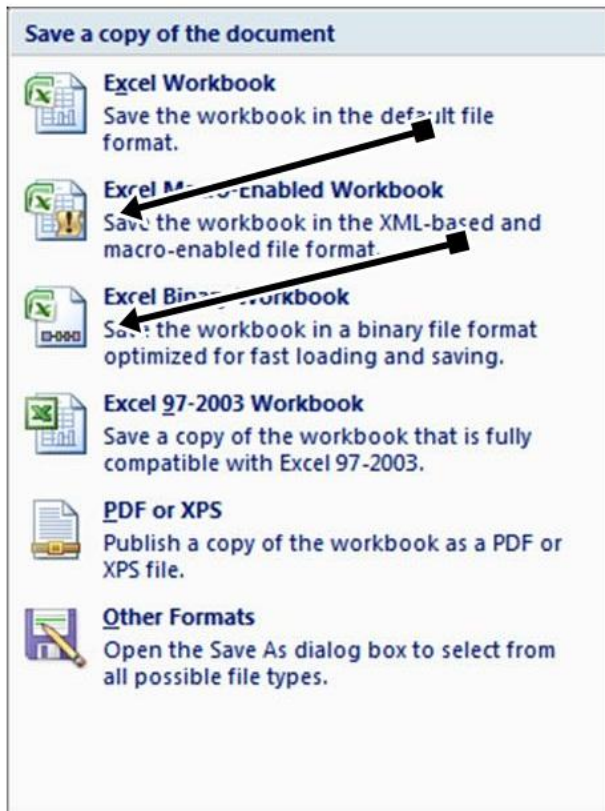
kemudian klik tombol **OK** Selesai

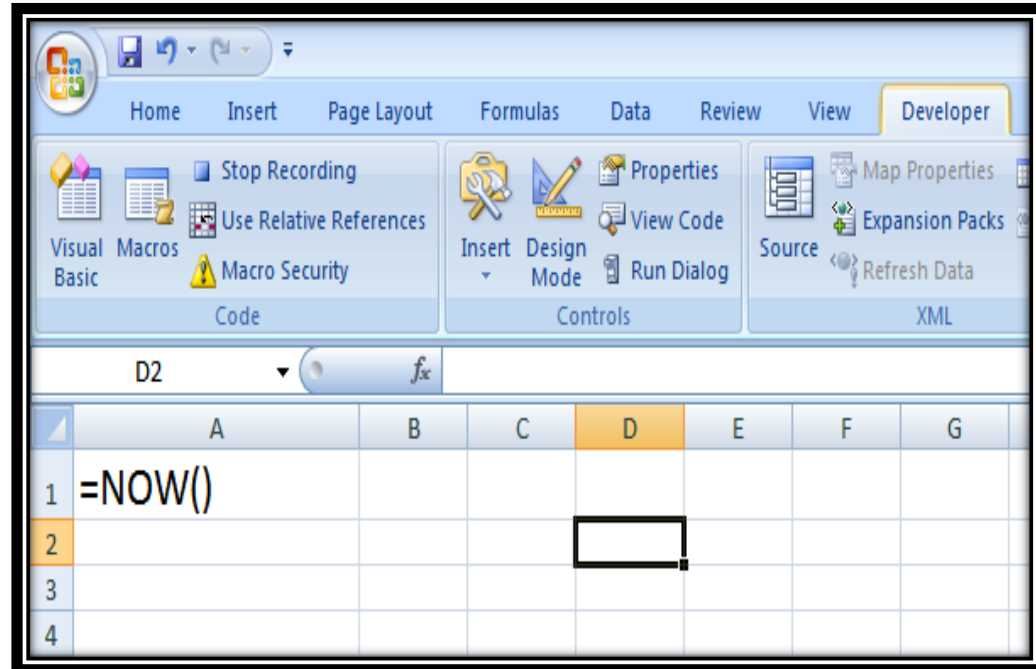
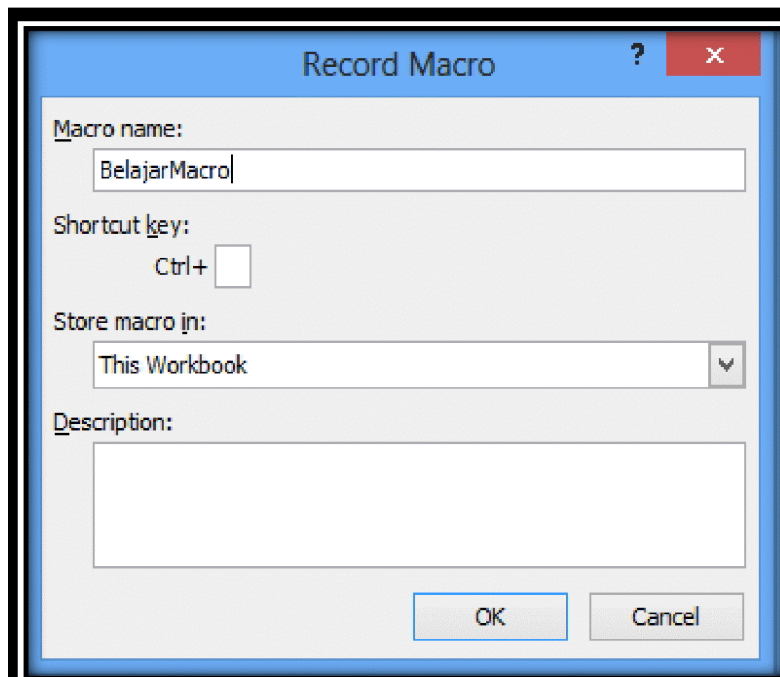


3.Rekor Macro

Saat Tab Developer sudah aktif, maka Anda sudah bisa membuat Macro. Cara termudah membuat Macro adalah dengan menggunakan fitur perekaman. Berikut langkah-langkah untuk membuat Macro menggunakan fitur perekaman:

1. Buatlah workbook baru. Kemudian save as format xlsx atau binary





Proses Merekam Macro

Selama di dalam mode Record Macro, Anda bisa mengerjakan tugastugas tertentu yang nanti bisa diulang-ulang terus sesuai kebutuhan.

Berikut contoh aktivitas yang bisa direkam menggunakan Macro:

1. Mulailah dengan mengetik teks di dalam sel A1.
Menulis teks

2. Klik sel D1.

3. Di dalam sel tersebut, ketik fungsi sederhana berikut ini:
=TODAY().

Memasukkan tanggal dengan memanfaatkan formula

4. Klik lagi sel D1 tempat fungsi itu ditulis. Lantas, klik-kanan dan pilih ikon untuk mengubah warna teks menjadi merah

5. Kembalilah lagi ke dalam Tab Developer dan kali ini, klik ikon Stop Recording.

Macro Hasil Perekaman

Macro yang telah selesai direkam itu kini bisa “diputar ulang”. Untuk mengecek Macro yang tadi telah Anda buat,

Klik **ALT + F11** Akan Tampil Jendela Visual Basic Properti

Klik Modul “ belajarMacro” akan tampil **Kode VBA** yang baru kita buat

4. Menempatkan Kode Perintah Macro

Kode VBA atau Macro adalah Kode Perintah dalam Bahasa Program basic atau bahasa yang dibuat untuk dipahami oleh Komputer

Selanjutnya Kita akan Menempatkan Kode Perintah yang di dikenal dengan Kode Macro Sesuai Jenis Perintah yang akan kita buat !

Menempatkan Kode Macro

Kode Macro dapat disimpan pada Wookbook, Wooksheets, Userform atau pada Modul sesuai jenis perintah yang akan dijalankan

Penjelasan :

1.Perintah yang disimpan pada Wookbook akan berjalan

Otomatis saat sebuah Wookbook aktif atau saat dibuka atau pula sebelum Wookbook ditutup

contoh perintah Workbook diawali dengan :


```
Private Sub Workbook_Open()
```

```
.....perintah macro.....
```

```
End Sub
```

2.Perintah yang disimpan pada Worksheets akan berjalan Otomatis saat sheets yang diberi Kode aktif

contoh perintah Worksheets diawali dengan :

```
Private Sub Worksheet_Change(ByVal Target As Range)
```

```
.....perintah macro.....
```

```
End Sub
```

3.Perintah yang disimpan pada UserForm akan berjalan Saat UserForm di Tampilkan

contoh perintah pada UserForm diawali dengan :

```
Private Sub UserForm_Initialize()
```

```
.....perintah macro.....
```

```
End Sub
```

Contohnya :

```
Private Sub UserForm_Initialize()
```

```
ComboBox1.List = Application.Transpose(Sheet1.Range("D5:P5").Value)
```

```
ComboBox2.AddItem "GANJIL"
```

```
ComboBox2.AddItem "GENAP"
```

```
ComboBox3.List = Sheet1.Range("B5:B20").Value
```

```
ComboBox4.List = Sheet1.Range("C5:C20").Value
```

```
End Sub
```

4. Perintah yang disimpan pada Modul akan berjalan Saat Modul tersebut dipanggil.
contoh perintah pada UserForm diawali dengan :

```
Sub Copy_data ()
```

```
.....perintah macro.....
```

```
End Sub
```

Membuat Tombol perintah pada Modul

Membuat tombol perintah pada Modul

The image illustrates the process of assigning a macro to a button in a module. It shows a context menu with the 'Assign Macro...' option highlighted. An arrow points from this option to the 'Assign Macro' dialog box. In the dialog box, the macro name is 'SnipDiagonalCornerRectangle1_Click', and the list of macros includes 'Perintah 1' and 'Perintah 2'. An arrow points from the text 'Klik kanan' to a red box labeled 'Perintah 2'. Another arrow points from the 'Perintah 2' entry in the dialog box to the 'OK' button.

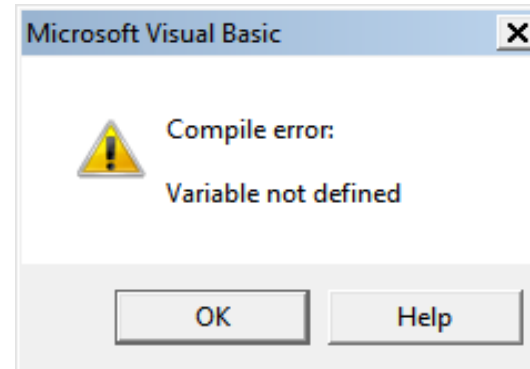
5.Option explicit

Biasanya option explicit diletakan di bagian atas coding atau dibagian general. fungsi option explicit untuk memaksa programmer mendeklarasikan semua variabel sebelum variabel tersebut digunakan. dengan option explicit akan sangat membantu programmer dalam mengurangi kesalahan dan mengetahui letak kesalahan atau debug.

Option Explicit

Sub test()

```
Dim myVar As Integer  
myVar = 10  
Range("A1").Value = mVar  
End Sub
```



Option Explicit

Private Sub CommandButton1_Click()

```
Dim score As Integer, result As String  
score = Range("A1").Value  
If scor >= 60 Then result = "pass"
```

```
Range("B1").Value = result  
End Sub
```

Option Explicit

```
Sub cek_error()
```

```
Dim YourName As String, password As  
String
```

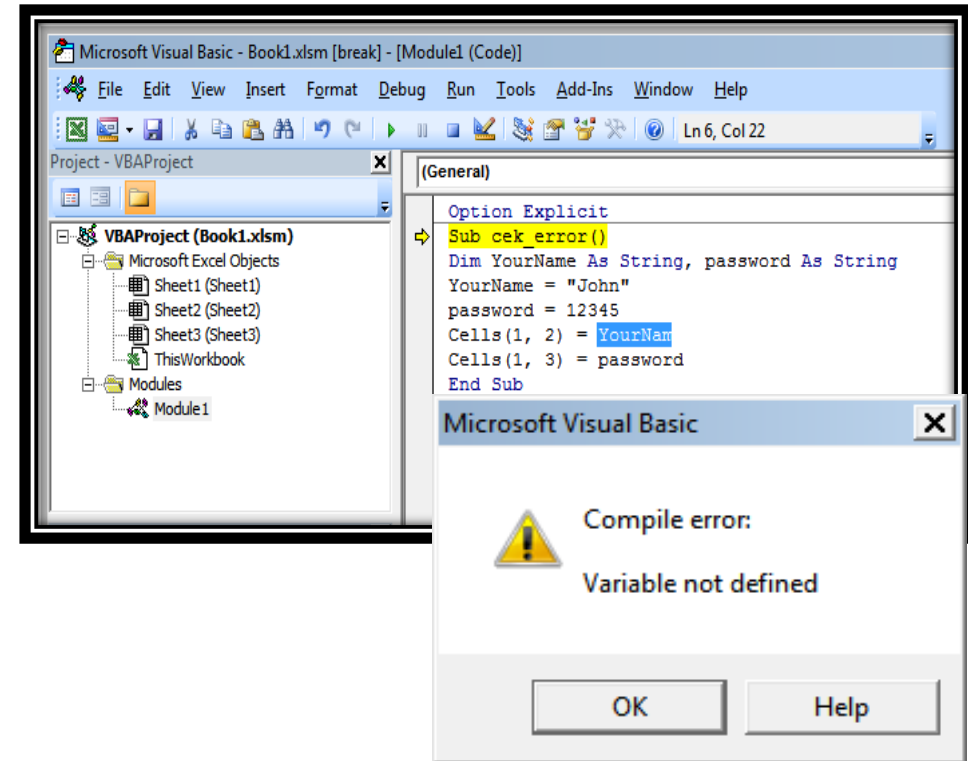
```
YourName = "John"
```

```
password = 12345
```

```
Cells(1, 2) = YourNam
```

```
Cells(1, 3) = password
```

```
End Sub
```



6. Statemen DIM

Ketika Anda mendeklarasikan suatu variable, gunakanlah statement Dim sesuai type datanya

type data text

```
Dim passpor As String
```

```
Dim Nama As String
```

type data angka

Dim firstnum As Integer

Dim secondnum As Integer

Dim total As Integer

type data tanggal

Dim Birthday As Date

Dim Lahir As Date

type data Mata uang

Dim Income As Currency

Dim gaji As Currency

contoh

Sub data ()

Dim YourName As String

Dim Birthday As Date

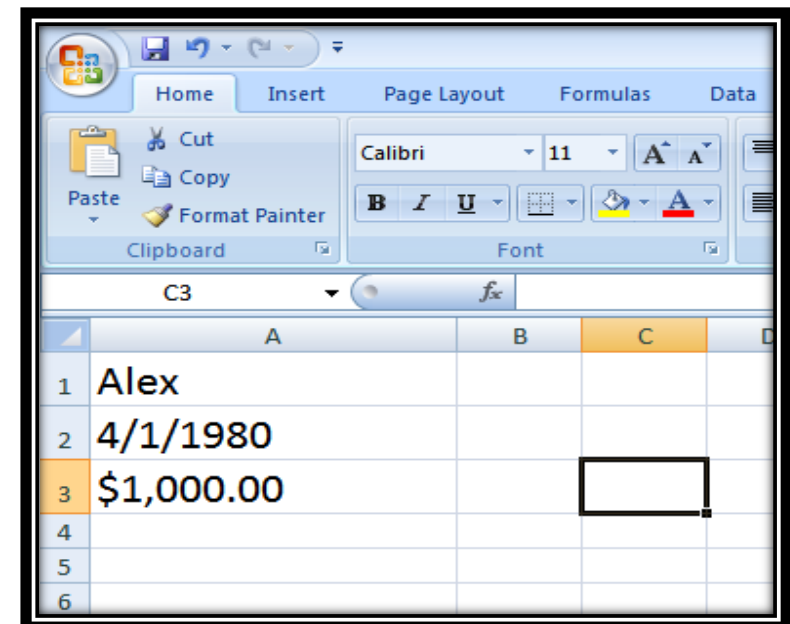
Dim Income As Currency

YourName = "Alex"

Birthday = "1 April 1980"

Income = 1000

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```
Range("A1") = YourName  
Range("A2") = BirthDay  
Range("A3") = Income  
End Sub
```

Contoh:

```
Dim Luas As Integer  
Dim Panjang As Integer  
Dim Lebar As Integer
```

Dim diatas dapat disingkat dengan tanda koma, sehingga ditulis :
Dim Luas,Panjang,Lebar As Integer atau

Dim L,P,Lu As Integer

Dan tidak boleh ditulis ganda
Misalnya :

```
Dim L,P,L As Integer  
Harus dibedakan antara Luas dengan Lebar
```

Tipe-tipe data variabel yang sering digunakan pada excel vba macro diantaranya yaitu sebagai berikut :

7.Integer

Integer digunakan untuk data berupa nomer atau angka bilangan bulat

Contoh penulisan:

Option Explicit

Sub Target_nilai()

Dim nilai As Integer

Dim keterangan As String

nilai = Range("b1").Value

If nilai >= 60 Then

 keterangan = "Nilai Bagus"

Else

 keterangan = "Nilai Kurang"

End If

Range("B3").Value = keterangan

End Sub

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8.Double

Double digunakan untuk data dengan tipe angka yang lebih kompleks termasuk desimal atau koma

Contoh penulisannya

Sub Hitung ()

Dim p, l, Keliling As Double

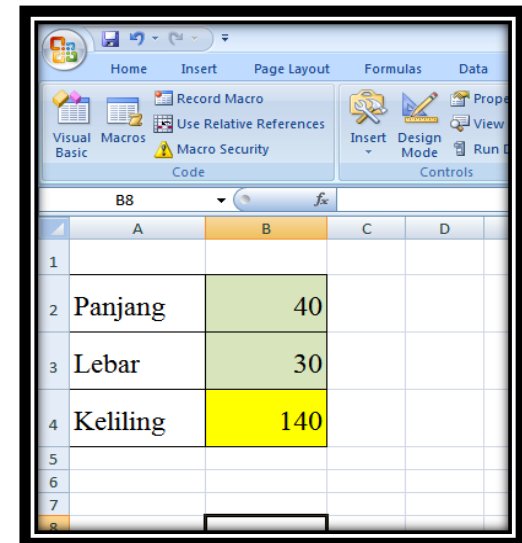
p = Range("B2").Value

l = Range("B3").Value

Keliling = 2 * (p + l)

Range("B4").Value = Keliling

End Sub



	A	B	C	D
1				
2	Panjang	40		
3	Lebar	30		
4	Keliling	140		
5				
6				
7				
8				

9.String

String digunakan untuk data dengan tipe tulisan huruf

Option Explicit

Sub keterangan()

Dim nilai As Integer

Dim keterangan As String

nilai = Range("A1").Value

If nilai >= 60 Then

 keterangan = "Nilai Bagus"

Else

 keterangan = "Nilai Kurang"

End If

Range("B1").Value = keterangan

End Sub

Sub nama_lengkap()

Dim Namapertama, Namakedua, Namalengkap As String

Namapertama = Cells(1, 1).Value

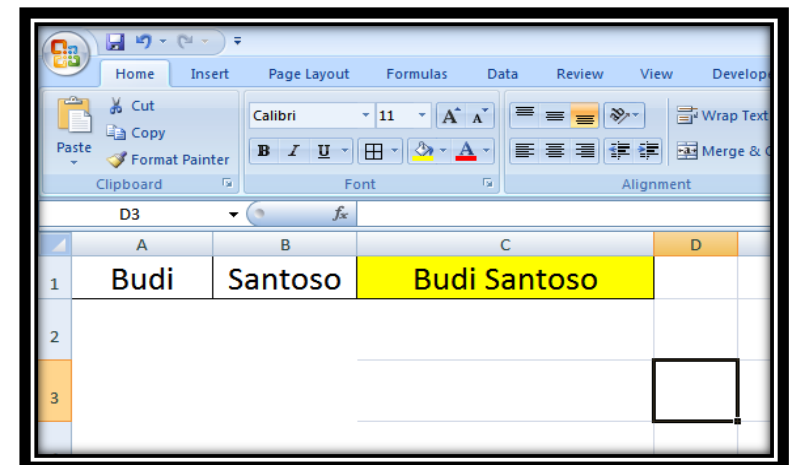
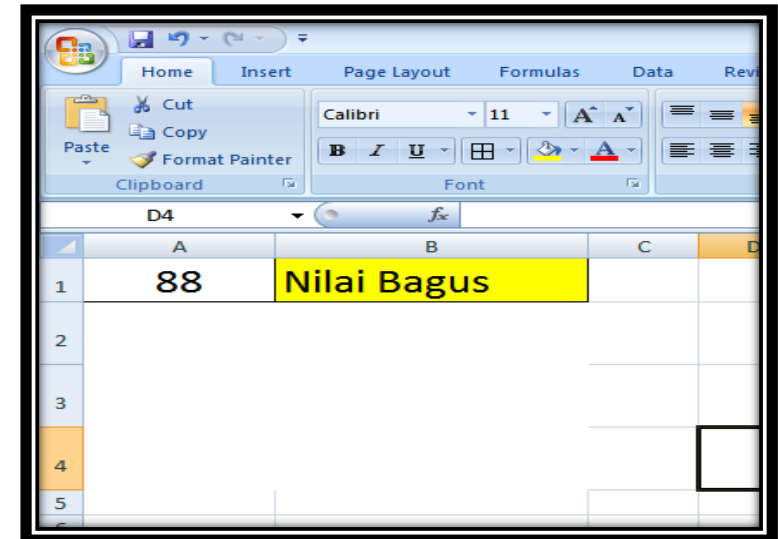
Namakedua = Cells(1, 2).Value

Namalengkap = Namapertama + " " + Namakedua

Cells(1, 3) = namalengkap

End Sub

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10.Boolean

Boolean digunakan untuk data dengan nilai true atau false

Contohnya :

```
Sub Sampel()
```

```
Dim x As Boolean
```

```
x = True
```

```
MsgBox "Benar"
```

```
End Sub
```

```
Private Sub Workbook_BeforeSave(ByVal SaveAsUI As Boolean, Cancel As Boolean)
```

```
If Cancel = True Or bIsClosing = False Then Exit Sub
```

```
Run "HideAll"
```

```
End Sub
```

11.LOOPING

Fungsi looping adalah perintah perulangan bisa kita kerjakan hanya dengan sekali klik/printah. Berikut ini beberapa fungsi looping yang bisa digunakan:

Looping For

Fungsi ini merupakan perulangan Dimulai dari

Contoh penulisannya :

Sub No_urut()

No = 0

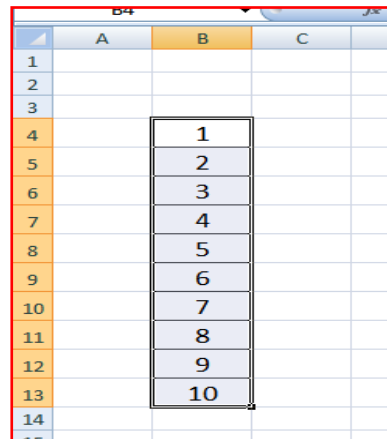
For Nomor = 1 To 10

No = No + 1

Cells(No + 3, 2).Value = No

Next Nomor

End Sub



	A	B	C
1			
2			
3			
4		1	
5		2	
6		3	
7		4	
8		5	
9		6	
10		7	
11		8	
12		9	
13		10	
14			
15			

(ket : pengulangan 1sampai 10 kali , For i = 1 To 10 dimulai dari baris pertama tambah 3 Cells(No + 3, 2).

Angka 3 adalah kolom ke 3 yaitu kolom I

12.Do >>> Loop Until

Do >>> Loop Until, statement perulangannya akan berhenti jika kondisi telah terpenuhi.

Contoh penulisannya :

Sub Angka()

```
Dim i As Integer
```

```
i = 1
```

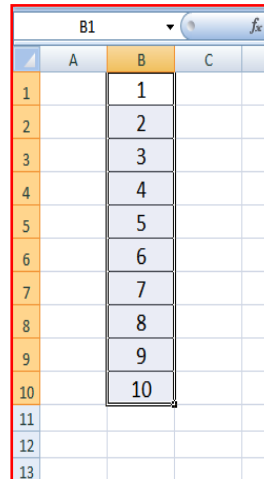
```
Do
```

```
Range("B" & i).Value = i
```

```
i = i + 1
```

```
Loop Until i > 10
```

```
End Sub
```



	A	B	C
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	
9		9	
10		10	
11			
12			
13			

(perulangan dengan penjumlahan $i + 1$ dimana loop akan berhenti jika kurang dari 10, hasilnya sama bilangan urut seperti diatas).

13. IF Then Else

Rumus **if then else** yaitu berfungsi untuk menjalankan fungsi perintah dimana terdapat satu, dua atau lebih suatu kondisi tertentu dengan hasil yang berbeda-beda.

Misalnya jika kondisi1 maka fungsi perintah yang dijalankan A, jika kondisi2 maka perintah yang dijalankan B dsb.

Contoh penulisannya :

Option Explicit

Sub keterangan()

Dim nilai As Integer

Dim keterangan As String

nilai = Range("A1").Value

If nilai >= 60 Then

keterangan = "Nilai Bagus"

Else

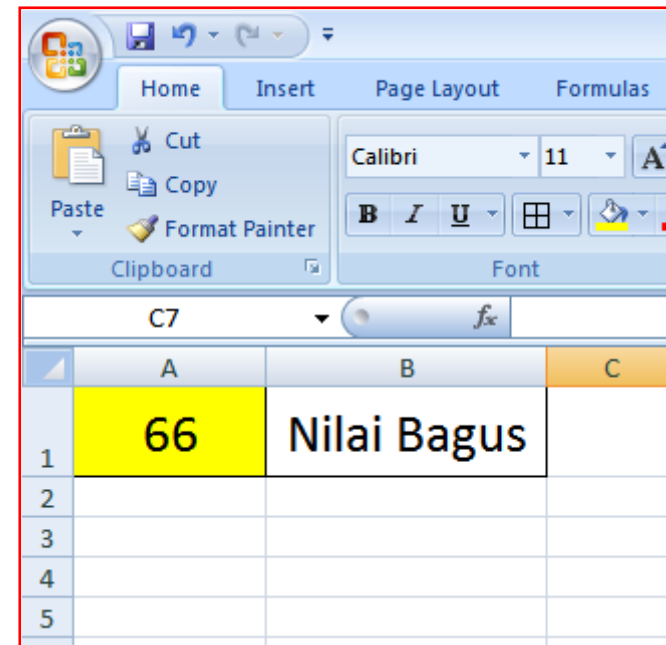
keterangan = "Nilai Kurang"

End If

Range("B1").Value = keterangan

End Sub

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14.Counter atau menghitung jumlah obyek

Menghitung jumlah sheet yang ada di workbook

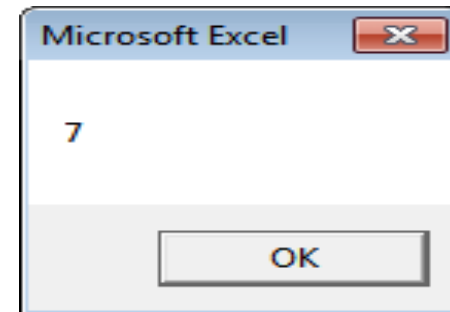
```
Sub Count_sheet()
```

```
'Menghitung jumlah sheets
```

```
myCount = Application.Sheets.Count
```

```
MsgBox myCount
```

```
End Sub
```



Menghitung jumlah baris selection

```
Sub Count_Rows()
```

```
myCount = Selection.Rows.Count
```

```
'Menghitung jumlah cell yang diblok mouse
```

```
MsgBox myCount
```

```
End Sub
```

Menghitung jumlah baris selection

```
Sub Count_Coulumn()
```

```
myCount = Selection.Columns.Count
```

```
'Menghitung jumlah kolom yang diblok mouse
```

```
MsgBox myCount  
End Sub
```

```
Sub Count_nilai()
```

```
'menambah nilai di cell A1 Setiap kali macro running
```

```
mycount = Range("a1") + 1  
Range("a1") = mycount  
End Sub
```

15. IF Then Else Pada Optionbutton

'Membuat Hyperlink dengan pilihan multy Optionbutton Optionbutton yang dipilih bernilai True

```
Private Sub CommandButton1_Click()
```

```
If Optionbutton1 = true Then  
UserForm1.Hide  
Sheet1.Select
```



```
ElseIf Optionbutton2 = true Then
```

```
UserForm1.Hide
```

```
Sheet2.Select
```

16. Formula VBA

FORMULA ARRAY KODENYA

```
[Cell awal: Cell akhir].Formula = "=formula"
```

Misalnya

```
[i2:i8].Formula = "=SUM(A2:D2)"
```

Contoh1

```
Sub tambah()
```

```
[i2:i8].Formula = "=SUM(A2:D2)"
```

```
'Cell awal i2 Cell akhir i8 menjawab
```

```
'formula SUM(A2:D2) akan didrag otomatis mulai i2 sampai i8
```

```
Application.DisplayFormulaBar = False
```

```
End sub
```

Sub ratarata ()

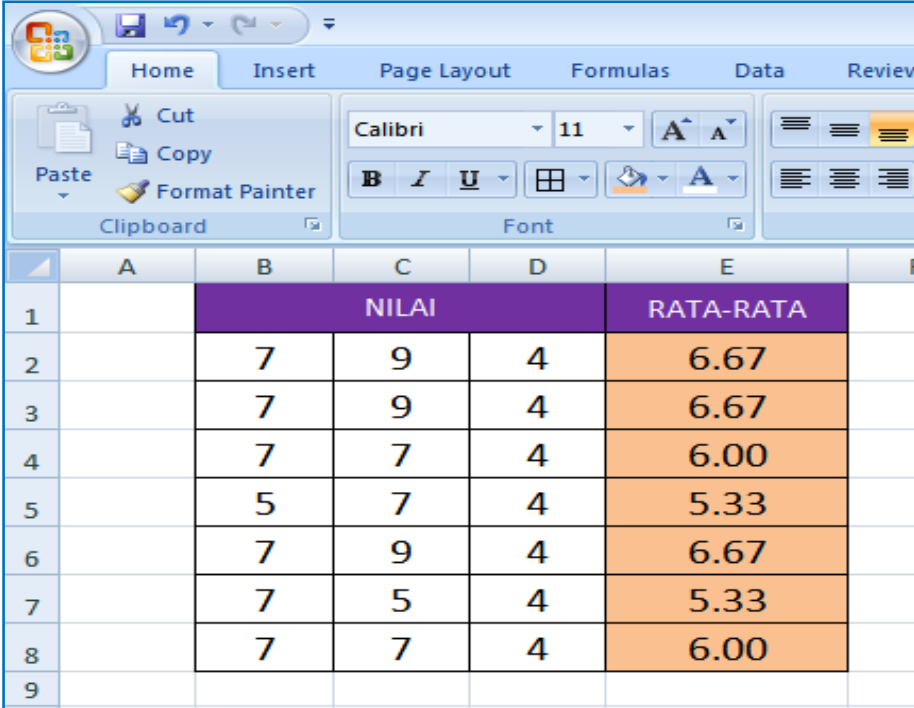
```
[e2:e8].Formula = "=AVERAGE(A2:d2)"
```

```
Application.DisplayFormulaBar = False
```

```
End sub
```

Application.DisplayFormulaBar = False

= agar rumus tidak tampil dilembar excel



	A	B	C	D	E
1			NILAI		RATA-RATA
2		7	9	4	6.67
3		7	9	4	6.67
4		7	7	4	6.00
5		5	7	4	5.33
6		7	9	4	6.67
7		7	5	4	5.33
8		7	7	4	6.00
9					

BAB II

Nomor Urut

17. Nomor urut sesuai jumlah data

Membuat Nomor urut Otomatis dengan menghitung jumlah data dikolom tertentu

Menggunakan formula "Counta" $L5 = \text{Counta}(d5:d50)$

Sub Nomor 0

'Kode yang disimpan pada sebuah modul

```
Sheets("data").Range("L5") = Application.CountA(Range("d5:d50"))
```

'Kode prosedur menghitung jumlah data dikolom d mulai d5 sampai d50

```
No = 0
```

```
For NOMOR = 1 To Range("a1")
```

'Baris dihitung mulai cell a1

```
No = No + 1
```

'Setiap pengulangan no bertambah 1

```
Cells(No + 5, 1).Value = No
```

No ditulis baris kelima pada kolom 1 atau kolom A

```
Next NOMOR
```

End Sub

18. Nomor urut Otomatis sesuai data sheet

Private Sub Worksheet_SelectionChange(ByVal Target As Range)

'Kode yang disimpan pada sebuah Worksheet

Range("a5:a50").Value = ""

'Kode setiap kali perubahan semua no dihapus sebelum membuat no baru

Sheets("sheet1").Range("a1") = Application.CountA(Range("D5:D50"))

No = 0

For NOMOR = 1 To Range("a1")

No = No + 1

Cells(No + 5, 1).Value = No

Next NOMOR

End Sub

	A	B	C	D	E	F
1	4					
2						
3						
4	No urut otomatis sesuai data nama					
5	No			NAMA		
6	1			Bapak		
7	2			Budi		
8	3			Wati		
9	4			MAMAK		
10						
11						
12						
13						
14						
15						
16						

19.Membuat Nomor urut Silang

Sub Nomor_urut_Silang ()

No = 0

For Nomor = 0 To 25 Step 2

No = Nomor + 1

Cells(No + 5, 4).Value = No

Next Nomor

Na = 0

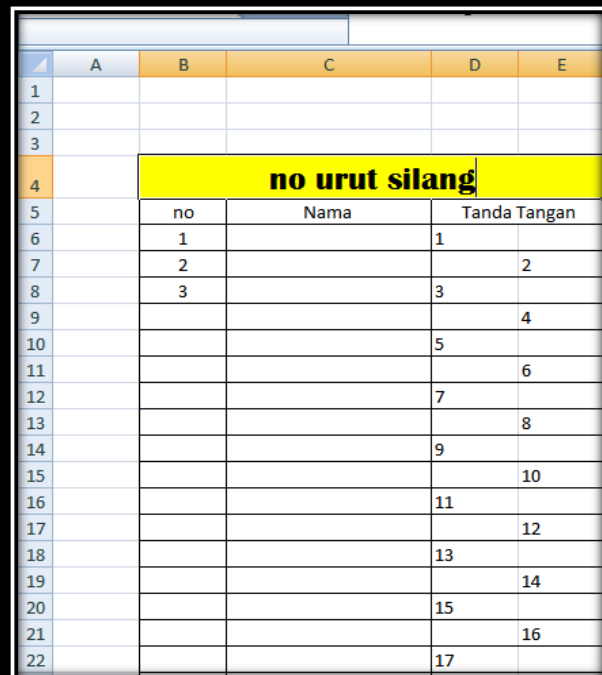
For Nama = 1 To 25 Step 2

Na = Nama + 1

Cells(Na + 5, 5).Value = Na

Next Nama

End Sub



	A	B	C	D	E
1					
2					
3					
4		no urut silang			
5		no	Nama	Tanda Tangan	
6		1		1	
7		2			2
8		3		3	
9					4
10				5	
11					6
12				7	
13					8
14				9	
15					10
16				11	
17					12
18				13	
19					14
20				15	
21					16
22				17	

BAB III

Workbook

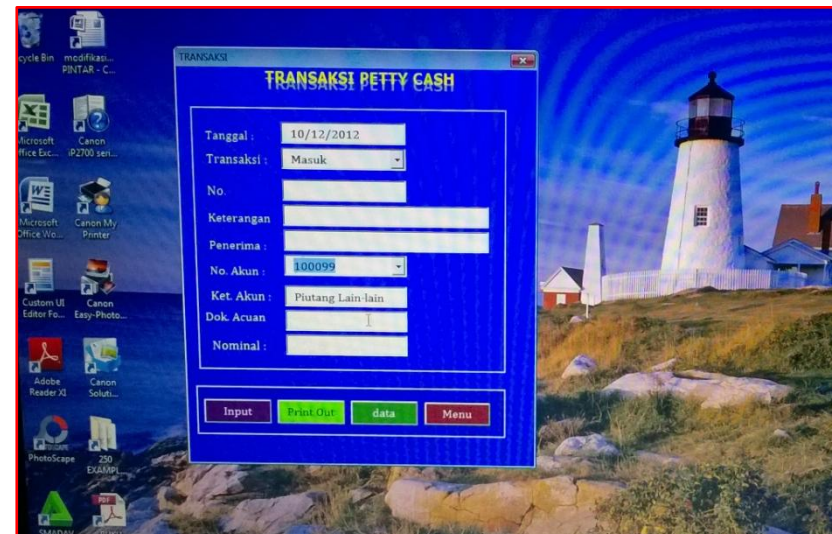
20. Perintah otomatis saat Workbook dibuka

```
Private Sub Workbook_Open()  
Msgbox "Hello"  
End Sub
```

21. Menampilkan useform Tanpa terlihat lembar kerja

```
Private Sub Workbook_Open()  
Application.Visible = False  
Userutama.Show  
Application.Visible = True  
End Sub
```

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22.Run sebelum Workbook keluar

```
Private Sub Workbook_BeforeClose(Cancel As Boolean)
bIsClosing = True
End Sub
```

```
Private Sub Workbook_BeforeSave(ByVal SaveAsUI As Boolean, Cancel As Boolean)
If Cancel = True Or bIsClosing = False Then Exit Sub
Run "HideAll"
End Sub
```

```
Private Sub Workbook_Deactivate()
If bIsClosing = False Then Exit Sub
Run "HideAll"
End Sub
```

23.menampilkan Userform Otomatis

```
Private Sub Workbook_Open()
Application.Visible = False
UserKASIR.Show
Application.Visible = True
End Sub
```

24. Menyembunyikan toolbar

```
Private Sub Workbook_Open()
```

```
Application.ExecuteExcel4Macro "show.toolbar( ""Ribbon"" ,False)"
```

```
Sheets("sheet1").select
```

```
End Sub
```

25. Menampilkan toolbar

```
Private Sub Workbook_Open()
```

```
Application.ExecuteExcel4Macro "show.toolbar( ""Ribbon"" ,True)"
```

```
Sheets("sheet1").select
```

```
End Sub
```

26. Menutup semua file Excel selain yg aktif

```
Private Sub Workbook_Open()
```

```
Dim WB As Workbook, MyWB As Workbook
```

```
Set MyWB = ActiveWorkbook
```

```
For Each WB In Workbooks
```

```
If WB.Name <> MyWB.Name Then WB.Close
```

```
Next
```

```
Exit Sub
```

```
End Sub
```


27. Membuat Nama "Range"

Membuat Nama "Range" Otomatis saat Workbook di buka

```
Private Sub Workbook_Open()
```

```
Worksheets("Sheet1").Range("a2:a20").Name = "Rekap"
```

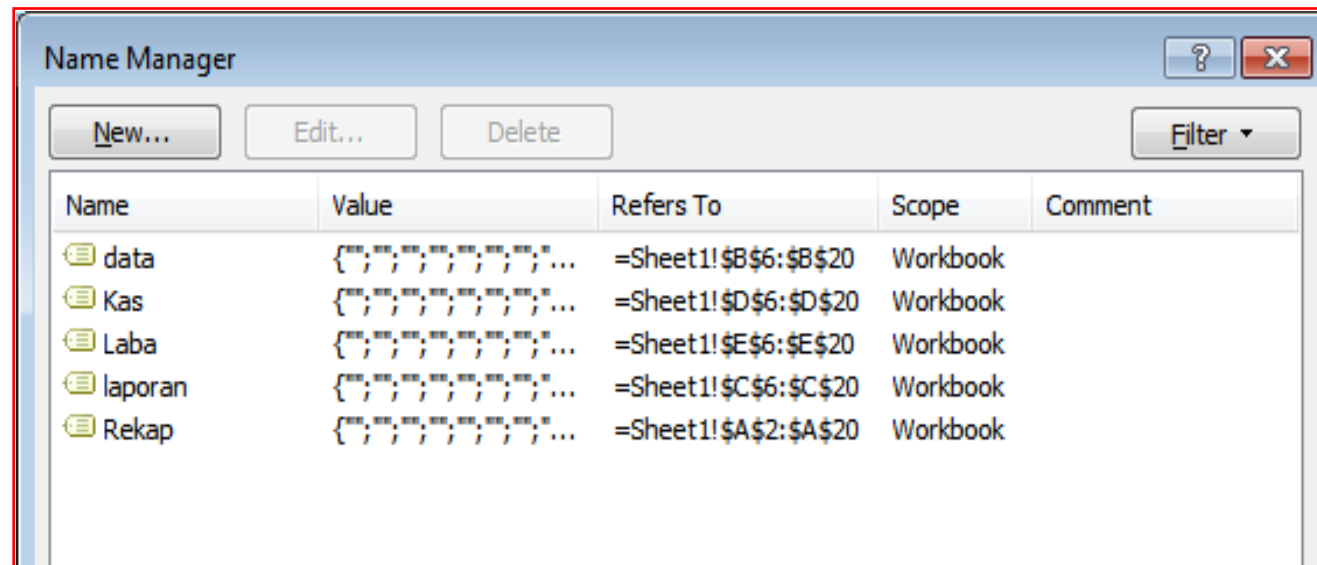
```
Worksheets("Sheet1").Range("b6:b20").Name = "data"
```

```
Worksheets("Sheet1").Range("c6:c20").Name = "laporan"
```

```
Worksheets("Sheet1").Range("d6:d20").Name = "Kas"
```

```
Worksheets("Sheet1").Range("e6:e20").Name = "Laba"
```

```
End sub
```



BAB IV

Worksheets

28. Menyembunyikan Worksheet

Sub sembunyicontoh2 ()

```
Sheets("1").Select  
Sheets("sekolah").Visible = xlSheetVeryHidden  
Sheets("gr").Visible = xlSheetVeryHidden  
Sheets("ks").Visible = xlSheetVeryHidden  
end sub
```

Sub sembunyicontoh3 ()

```
Sheet1.Visible = 1  
Sheet2.Visible = 2  
Sheet3.Visible = 2  
Sheets("sheet1").Select  
End Sub
```

29.Sembunyikan sheet bergantian

'Sheets("Sheet1").Visible = 1, nilai 1 ditampilkan sedangkan nilai 2 disembunyikan

```
Private Sub Worksheet_SelectionChange(ByVal Target As Range)
```

```
Sheets("Sheet1").Visible = 1
```

```
Sheets("Sheet2").Visible = 2
```

```
End Sub
```

```
Private Sub Worksheet_SelectionChange(ByVal Target As Range)
```

```
Sheets("Sheet1").Visible = 2
```

```
Sheets("Sheet2").Visible = 1
```

```
End Sub
```

30.Membuat sheets Baru sesuai data sheet

```
Sub sheets_Baru ()
```

```
Dim i As Integer
```

```
Dim key
```

```
With CreateObject("scripting.dictionary")
```

```
For i = 1 To Sheets.Count
.Item(Sheets(i).Name) = i
Next i
If Not .exists([b3].Value) Then
Sheets.Add after:=Sheets(Sheets.Count)
Sheets(Sheets.Count).Name = CStr(Sheets("Data").Range("b3"))
Else
MsgBox "data kembar bro": Exit Sub
End If
End With
Sheets("Data").Select
End Sub
```

31.Mengurutkan Sheets berdasarkan nama

```
Sub SortSheetbyName()
```

```
Dim numberOfSheets As Integer
```

```
Dim sheetPosition As Integer
```

```
Dim I As Integer
```

```
numberOfSheets = ActiveWorkbook.Worksheets.Count
```

```
sheetPosition = numberOfSheets
Do
If sheetPosition = 1 Then Exit Do
For I = 1 To sheetPosition - 1
If Sheets(I).Name > Sheets(I + 1).Name Then
Sheets(I + 1).Move before:=Sheets(I)
End If
Next I
sheetPosition = sheetPosition - 1
Loop
End Sub
```

32. Menampilkan daftar nama semua sheets

```
Sub Daftar_dan_link()
```

```
Dim i As Long
On Error Resume Next
Application.DisplayAlerts = False
Worksheets("Table of Content").Delete
Application.DisplayAlerts = True
On Error GoTo 0
ThisWorkbook.Sheets.Add Before:=ThisWorkbook.Worksheets(1)
```

```

ActiveSheet.Name = "Table of Content"
For i = 1 To Sheets.Count
With ActiveSheet
.Hyperlinks.Add _
Anchor:=ActiveSheet.Cells(i, 1), _
Address:="", _
SubAddress:="" & Sheets(i).Name & "!A1", _
ScreenTip:=Sheets(i).Name, _
TextToDisplay:=Sheets(i).Name
End With
Next i
End Sub

```

	A	B
1	data	
2	Sheet2	
3	Sheet3	
4	Sheet4	
5	laporan	
6	rekap	
7	kas	
8	jurnal	
9		
10		
11		

33. Sembunyikan semua sheet yang tidak active

```

Sub HideWorksheet()

```

```

Dim ws As Worksheet

```

```

For Each ws In ThisWorkbook.Worksheets

```

```

If ws.Name <> ThisWorkbook.ActiveSheet.Name Then

```

```

ws.Visible = xlSheetHidden

```

```

End If

```

```
Next ws  
End Sub
```

34. Menampilkan semua sheet yang tidak active

```
Sub UnhideAllWorksheet()
```

```
Dim ws As Worksheet  
For Each ws In ActiveWorkbook.Worksheets  
ws.Visible = xlSheetVisible  
Next ws  
End Sub
```

35. Delete All but the Active Worksheet

Menghapus semua sheet selain sheet aktif

```
Sub DeleteWorksheets()
```

```
Dim ws As Worksheet  
For Each ws In ThisWorkbook.Worksheets  
If ws.name <> ThisWorkbook.ActiveSheet.name Then  
Application.DisplayAlerts = False  
ws.Delete
```

```
Application.DisplayAlerts = True
End If
Next ws
End Sub
```

36. Save as New Workbook

```
Sub book_save_as()
Dim name As String
name = Range("B2").Value
ActiveWorkbook.SaveAs Filename:=name
Sheets("SHEET1").Range("B2").Value = ""
End Sub
```

Copy Worksheet Into a New Workbook

Copy paste ke sheet filebook baru

```
Sub CopyWorksheetToNewWorkbook()
ThisWorkbook.ActiveSheet.Copy _
Before:=Workbooks.Add.Worksheets(1)
End Sub
```


37.Protect All Worksheets

'Memprotek semua sheet pada wookbook aktif dengan Password

Sub ProtectAllWorskeets()

```
Dim ws As Worksheet
Dim ps As String
ps = InputBox("Enter a Password.", vbOKCancel)
For Each ws In ActiveWorkbook.Worksheets
ws.Protect Password:=ps
Next ws
End Sub
```

38.Protect Worksheet

```
Sub ProtectWS()
ActiveSheet.Protect "mypassword", True, True
End Sub
```

39.Mengosongkan isi sheet

```
Private Sub CommandButton1_Click()
```

```
Dim answer As Integer
```

```
answer = MsgBox("Are you sure you want to empty the sheet?", vbYesNo +  
vbQuestion, "Empty Sheet")
```

```
If answer = vbYes Then
```

```
Cells.ClearContents
```

```
Else
```

```
'do nothing
```

```
End If
```

```
End Sub
```

40.Rool Otomatis active cell

```
Private Sub Worksheet_SelectionChange(ByVal Target As Range)
```

```
If Target.Column = 1 Then
```

```
If Target.Row = 10 Then
```

```
Range("A1").Activate
```

```
End If
```

```
End If
```

```
End Sub
```

41.Hide all Worksheet

Menyembunyikan semua sheets sebelum sheet ditutup kecuali **sheet10**

'Pastekan kode ini pada Modul

```
Private Sub Workbook_BeforeClose(Cancel As Boolean)
```

```
bIsClosing = True
```

```
End Sub
```

```
Private Sub Workbook_BeforeSave(ByVal SaveAsUI As Boolean, Cancel As Boolean)
```

```
If Cancel = True Or bIsClosing = False Then Exit Sub
```

```
Run "HideAll"
```

```
End Sub
```

```
Private Sub Workbook_Deactivate()
```

```
If bIsClosing = False Then Exit Sub
```

```
Run "HideAll"
```

```
End Sub
```

'Pastekan kode ini pada Wookbooks

```
Private Sub Workbook_Open()
```

```
Run "ShowAll"
```

```
Sheets("depan1").Select
```

```
'Application.ExecuteExcel4Macro "show.toolbar( ""Ribbon "" ,False)"
```

```
End Sub
```

*Public blsClosing As Boolean
Dim wsSheet As Worksheet*

Sub HideAll()

```
Application.ScreenUpdating = False  
For Each wsSheet In ThisWorkbook.Worksheets  
If wsSheet.CodeName = "Sheet10" Then  
wsSheet.Visible = xlSheetVisible  
Else  
wsSheet.Visible = xlSheetVeryHidden  
End If  
Next wsSheet  
Application.ScreenUpdating = True  
End Sub
```

Sub ShowAll()

```
blsClosing = False  
For Each wsSheet In ThisWorkbook.Worksheets  
If wsSheet.CodeName <> "Sheet10" Then  
wsSheet.Visible = xlSheetVisible  
End If  
Next wsSheet  
Sheet10.Visible = xlSheetVeryHidden  
End Sub
```

42.UnHide all Worksheet

Sub ShowAll()

bIsClosing = False

For Each wsSheet In ThisWorkbook.Worksheets

If wsSheet.CodeName <> "Sheet10" Then

wsSheet.Visible = xlSheetVisible

End If

Next wsSheet

Sheet10.Visible = xlSheetVeryHidden

End Sub

BAB V

UserForm

43. Menampilkan atau Menutup Userform

```
Private Sub CommandButton1_Click()  
UserForm1.Hide  
End Sub
```

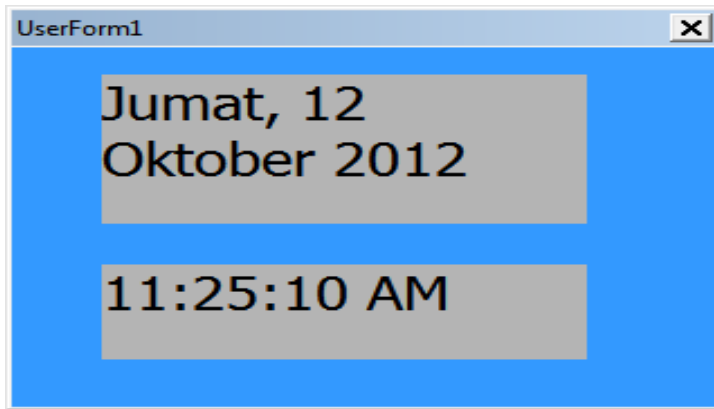
```
Private Sub CommandButton1_Click()  
UserForm2.show  
End Sub
```

```
Private Sub CommandButton1_Click()  
Unload me
```

End Sub

44. Jam digital aktif pada userform

Buatlah sebuah userform dengan 2 label yaitu label1 dan label 2



Private Sub UserForm_Activate()

```
Label1 = WorksheetFunction.Text(Date, "[$-421]dddd, dd mmmm yyyy")
```

```
Do Until Berhenti
```

```
Label2 = FormatDateTime(Time, vbLongTime)
```

```
DoEvents
```

```
Loop  
End Sub
```

45. Menutup userform otomatis

Menutup userform aktif otomatis pada waktu yang sdh ditentukan

```
Private Sub UserForm_Activate()
```

```
Application.OnTime _  
(Now() + TimeSerial(0, 0, 3)), "CloseUserForm"  
End Sub
```

Userform tampil otomatis saat workbook dibuka

```
Private Sub Workbook_Open()
```

```
Application.Visible = False  
UserForm1.Show  
Application.Visible = True
```

Menyembunyikan toolbar

```
Application.ExecuteExcel4Macro "show.toolbar( ""Ribbon"" ,False)"  
End Sub
```


46. Userform Tampil Bergantian

```
Private Sub CommandButton1_Click()
```

```
Unload Me
```

```
Application.Visible = False
```

```
Userform1.Show
```

```
Application.Visible = True
```

```
End Sub
```

```
Private Sub CommandButton2_Click()
```

```
Unload Me
```

```
Application.Visible = False
```

```
Userform2.Show
```

```
Application.Visible = True
```

```
End Sub
```

47. UserForm_Initialize

Prosedur otomatis saat userform aktif

```
Private Sub UserForm_Initialize()  
  ComboBox1.AddItem "LAPORAN"  
  ComboBox1.AddItem "KEUANGAN"  
End Sub
```

```
Private Sub UserForm_Initialize()  
  'menampilkan Label  
  UserForm1.Label1.Caption = "My Label"
```

```
'membuat isian Dropdwon pada lisbox  
UserForm1.ListBox1.RowSource = Worksheets(1).Range("A1:A10").Address
```

```
'Menampilkan isian pada textbox1  
Me.TextBox1.Text = ""
```

```
'input tex di sheet data cell d6 pada textbox1  
Worksheets("Data").Range("D6").Value = UserForm1.TextBox1.Value  
End Sub
```

48.Private Sub Change

```
Private Sub ComboBox1_Change()
```

```
Me.TextBox1.Text = Me.ComboBox1.Value
```

```
End Sub
```

```
Private Sub ListBox1_Click()
```

```
Me.TextBox1.Text = Me.ListBox1.Value
```

```
End Sub
```

```
Private Sub ComboBox1_Change()
```

```
Sheets("Sheet1").Range("A1").Value = Me.ComboBox1.Value
```

```
End Sub
```

```
Private Sub ListBox1_Click()
```

```
Sheets("Sheet1").Range("A1").Value = Me.ListBox1.Value
```

```
End Sub
```

BAB VI

Textbox

49.Val Texbox (Nilai angka pada textbox)

```
Private Sub CommandButton1_Click()
```

```
a = Val(Text1.Text)
```

```
b = Val(Text2.Text)
```

```
r = a + b
```

```
Text3.Text = r
```

```
End Sub
```

```
Private Sub CommandButton2_Click()
```

```
a = Val(Text1.Text)
```

```
b = Val(Text2.Text)
```

```
r = a - b
```

```
Text3.Text = r
```

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End Sub

Private Sub CommandButton3_Click()

a = Val(Text1.Text)

b = Val(Text2.Text)

r = a * b

Text3.Text = r

End Sub

Private Sub CommandButton4_Click()

a = Val(Text1.Text)

b = Val(Text2.Text)

r = a / b

Text3.Text = r

End Sub

50.Format Tanggal padaTextbox

Untuk format penulisan tanggal pada texbok , Bila format bukan tanggal maka akan terjadi pembatalan dalam penulisan

Private Sub TextBox3_Exit(ByVal Cancel As MSForms.ReturnBoolean)

If Not IsDate(TextBox3.Text) Then

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```
MsgBox "Format Tanggal Lahir Tidak Valid"
```

```
  calsel = True
```

```
Else
```

```
End If
```

```
End Sub
```

```
Private Sub TextBox1_Exit(ByVal Cancel As MSForms.ReturnBoolean)
```

```
  If IsDate(TextBox1.Text) = False And _
```

```
  Len(TextBox1.Text) = 0 Then
```

```
    MsgBox " Format Tanggal Lahir Tidak Valid."
```

```
    TextBox1.Text = ""
```

```
    Cancel = True
```

```
  End If
```

```
End Sub
```

51.Kosongkan text pada Texbox

```
With UserForm1
```

```
  For i = 1 To 5
```

```
    .Controls("textbox" & i).Text = ""
```

```
  Next
```

```
End With  
End sub
```

52.Kosongkan text pada combobox

```
With UserForm1  
For i = 1 To 3  
.Controls("pada combobox " & i).Text = ""  
Next  
End With  
End sub
```

53.Kosongkan text pada textbox dan combobox

```
With UserForm1  
For i = 1 To 5  
.Controls("textbox" & i).Text = ""  
Next  
For ni = 1 To 3  
.Controls("pada combobox " & ni).Text = ""  
Next
```

End sub

54. Validasi Format Number pada textbox

```
Private Sub TextBox1_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)
```

```
'Validasi angka TextBox
```

```
Select Case KeyAscii
```

```
Case Asc("0") To Asc("9")
```

```
Case Else
```

```
KeyAscii = 0
```

```
End Select
```

```
End Sub
```

55. Msg Invalid Number pada textbox

```
Private Sub TextBox3_Change()
```

```
If TextBox3 = vbNullString Then Exit Sub
```

```
If Not IsNumeric(TextBox3) Then
```

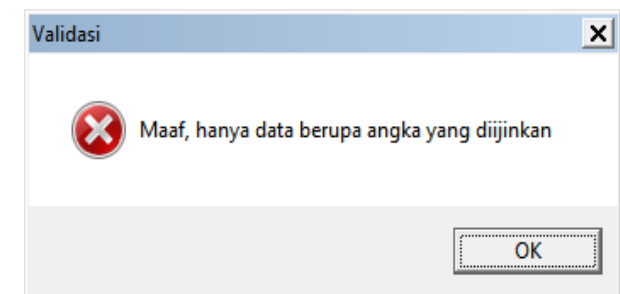
```
MsgBox "Maaf, hanya data berupa angka yang diijinkan", 16, "Validasi"
```

```
TextBox3 = vbNullString
```

```
End If
```

```
End Sub
```

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56. Validasi Format mata uang pada textbox

```
Private Sub TextBox4_Change()
```

```
'Validasi Mata Uang Rupiah
```

```
TextBox4.Value = Format(TextBox4.Value, "Rp #,##0")
```

```
Select Case KeyAscii
```

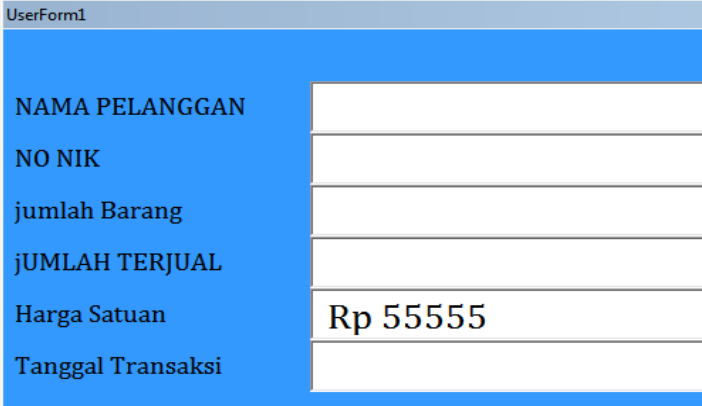
```
Case Asc("0") To Asc("9")
```

```
Case Else
```

```
KeyAscii = 0
```

```
End Select
```

```
End Sub
```



UserForm1

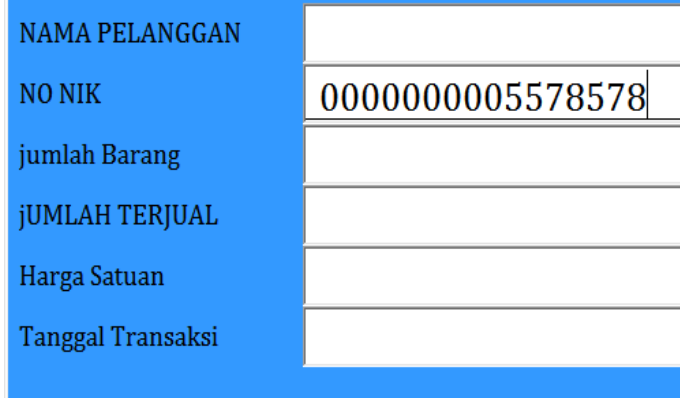
NAMA PELANGGAN	
NO NIK	
jumlah Barang	
JUMLAH TERJUAL	
Harga Satuan	Rp 55555
Tanggal Transaksi	

57. Validasi Format Jumlah digit pada textbox

```
Private Sub TextBox2_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)
```

```
TextBox2.Value = Format(TextBox2.Value, "0000000000000000")
```

```
End Sub
```



UserForm1

NAMA PELANGGAN	
NO NIK	0000000005578578
jumlah Barang	
JUMLAH TERJUAL	
Harga Satuan	
Tanggal Transaksi	

58. Private date format pada textbox

```
Private Sub TextBox1_BeforeUpdate(ByVal Cancel As MSForms.ReturnBoolean)
```

```
Dim dDate As Date
```

```
dDate = DateSerial(Year(Date), Month(Date), Day(Date))
```

```
TextBox5.Value = Format(TextBox5.Value, "dd/mm/yyyy")
```

```
dDate = TextBox5.Value
```

```
End Sub
```

59. Private ComboBox1 to textbox

```
Private Sub ComboBox1_Change()
```

```
Set ipa = Sheets("Sheet2")
```

```
On Error Resume Next 'meski error lanjut terus
```

```
Set KunciLook = ipa.Range("B3", ipa.Range("B3").End(xlDown))
```

```
Set c = KunciLook.Find(ComboBox1.Value, LookIn:=xlValues, MatchCase:=False)
```

```
TextBox2.Value = c.Offset(0, 2).Value
```

```
TextBox4.Value = c.Offset(0, 1).Value
```

```
End Sub
```

60. Penggunaan If TextBox1.Text

```
Private Sub CommandButton1_Click()
```

```
If TextBox2.Text = "" Then '1  
MsgBox ("Klik Terlebih Dahulu Daftar Disamping !")  
Elseif TextBox2.Text = 1 Then  
Userutama.Hide  
Sheets("cover").Select  
end if  
end sub
```

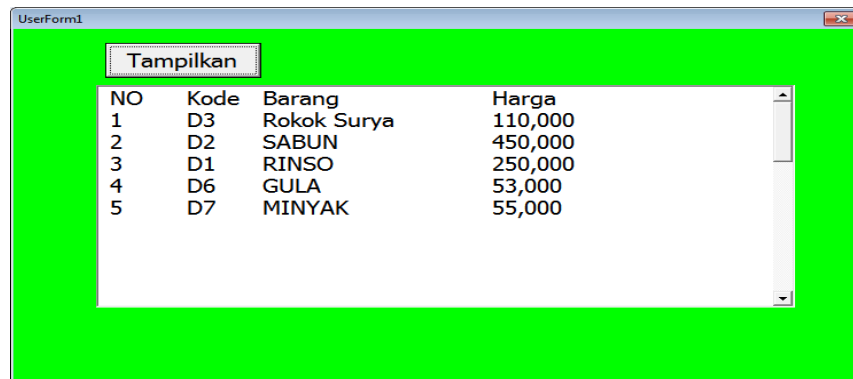
```
Private Sub CommandButton1_Click()
```

```
If TextBox2.Text = 2 Then  
Userutama.Hide  
Sheets("murid").Select  
Elseif TextBox2.Text = 3 Then  
Userutama.Hide  
Sheets("absen").Select  
end if  
end sub
```

BAB VII

Listbox , Combobox & Commandbutton

61. Menampilkan data pada Listbox



Private Sub CommandButton1_Click()

```
ListBox1.ColumnCount = 4
```

```
ListBox1.ColumnWidths = 50 & ";" & 50 & ";" & 150 & ";" & 150
```

```
ListBox1.RowSource = "data"
```

```
End Sub
```

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'ket : Menampilkan data range dengan nama range data ' pada lisbox
'ColumnWidths = 50 & ";" & 50 adalah jarak kolom 'atau tampilan pada listbox

62.Menampilkan data Terakhir pada Listbox

```
Private Sub CommandButton1_Click()
```

```
ListBox1.ColumnCount = 4
```

```
ListBox1.ColumnWidths = 50 & ";" & 50 & ";" & 150 & ";" & 150
```

```
ListBox1.RowSource = "data"
```

```
End Sub
```

63.Menampilkan data listbox di textbox

```
Private Sub ListBox1_Click()
```

```
TextBox1.Value = ListBox1.List(ListBox1.ListIndex, 0)
```

'data listbox tampil di textbox

'ListIndex, 0) artinya menampilkan data

'kolom pertama dari listbox

```
TextBox2.Value = ListBox1.List(ListBox1.ListIndex, 1)
```

```
TextBox3.Value = ListBox1.List(ListBox1.ListIndex, 2)
```

```
End Sub
```

64.List Combobox Tranpose (dalam baris)

```
Private Sub UserForm_Initialize()
```

```
ComboBox1.List = Application.Transpose(Sheet1.Range("D5:F5").Value)
```

```
End Sub
```

65.List Combobox (sesuai data 1 kolom)

```
Private Sub UserForm_Initialize()
```

```
For Jmlh = 3 To 12
```

```
Nilai = Range("L" & Jmlh)
```

```
ComboBox1.AddItem Nilai
```

```
Next Jmlh
```

```
End Sub
```

66.List Multi Combobox (sheet data multy kolom)

```
Private Sub UserForm_Initialize()
```

```
For Jmlh = 3 To 15
```

```
'Dimulai pada baris ke 3 sampai baris ke 15 pada kolom
```

' L untuk tanggal ,m untuk bulan ,n untuk Tahun.

```
Tanggal = Range("L" & Jmlh)
Bulan = Range("M" & Jmlh)
Tahun = Range("N" & Jmlh)
Pasien = Range("O" & Jmlh)
ComboBox1.AddItem Tanggal
ComboBox2.AddItem Bulan
ComboBox3.AddItem Tahun
Next Jmlh
End Sub
```

67.List Combobox AddItem

```
Private Sub UserForm_Initialize()
ComboBox1.AddItem "JANUARI"
ComboBox1.AddItem "FEBRUARI"
ComboBox1.AddItem "MARET"
End Sub
```

68.List Combobox Filter Kelompok Data

Private Sub UserForm_Initialize()

```
Dim Cabang As Range, UniqCabang, n As Long
Set Tbl = Sheets("Sheet1").Cells(4, 3).CurrentRegion
Set Cabang = Tbl.Offset(2, 2).Resize(Tbl.Rows.Count - 2, 1)
UniqCabang = LOUV(Cabang)
ComboBox1.Clear
For n = LBound(UniqCabang) To UBound(UniqCabang)
    ComboBox1.AddItem UniqCabang(n)
Next n
End Sub
```

Private Sub ComboBox1_Change()

```
Dim HeadArray(), r As Long, n As Long, c As Integer
ReDim HeadArray(0 To Tbl.Columns.Count - 1)
With ListBox1
    .ColumnCount = Tbl.Columns.Count
    .Clear
    ' Header dlm listbox
    For c = 0 To Tbl.Columns.Count - 1
```



```
    HeadArray(c) = Tbl(2, c + 1)
Next c
.AddItem: .Column() = HeadArray
n = 0: r = 0: c = 0
' items dlm listbox
For r = 3 To Tbl.Rows.Count
    If ComboBox1.ListIndex > -1 Then
        If Tbl(r, 3) = ComboBox1 Then
            n = n + 1
            For c = 1 To Tbl.Columns.Count
                .AddItem: .List(n, c - 1) = Tbl(r, c)
            Next c
        End If
    End If
Next r
End With
End Sub
```

69.CommandButton Multy Control

```
Private Sub CommandButton1_Click()
```

```
If CommandButton1.Caption = "Contoh1" Then
```

```
Call hapus
```

```
Call Contoh1
```

```
CommandButton1.Caption = "Contoh2"
```

```
ElseIf CommandButton1.Caption = "Contoh2" Then
```

```
Call hapus
```

```
Call Contoh2
```

```
CommandButton1.Caption = "Contoh3"
```

```
ElseIf CommandButton1.Caption = "Contoh3" Then
```

```
Call hapus
```

```
Call Contoh3
```

```
CommandButton1.Caption = "Contoh4"
```

```
ElseIf CommandButton1.Caption = "Contoh4" Then
```

```
Call hapus
```

```
Call Contoh4
```

```
CommandButton1.Caption = "Contoh5"
```

```
ElseIf CommandButton1.Caption = "Contoh5" Then
```

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```
Call hapus  
Call Contoh5  
CommandButton1.Caption = "Contoh6"
```

```
ElseIf CommandButton1.Caption = "Contoh6" Then  
Call hapus  
Call Contoh6  
CommandButton1.Caption = "Contoh7"
```

```
ElseIf CommandButton1.Caption = "Contoh7" Then  
Call hapus  
Call Contoh7  
Call Color  
CommandButton1.Caption = "Color"
```

```
ElseIf CommandButton1.Caption = "Color" Then  
Call hapus  
Call Color2  
CommandButton1.Caption = "Contoh1"  
End If  
End Sub
```

70.Effek mouse pada CommandButton

```
Private Sub CommandButton1_MouseMove(ByVal Button As Integer, ByVal Shift As Integer, ByVal X As Single, ByVal Y As Single)
```

```
'Effek mouse
```

```
With CommandButton1
```

```
'jika mouse diarahkan maka latar belakang akan menjadi biru
```

```
.BackColor = vbBlue
```

```
.ForeColor = vbRed
```

```
End With
```

```
End Sub
```

```
Private Sub CommandButton2_MouseMove(ByVal Button As Integer, ByVal Shift As Integer, ByVal X As Single, ByVal Y As Single)
```

```
'Effek mouse
```

```
With CommandButton2
```

```
'jika mouse diarahkan maka latar belakang akan menjadi biru
```

```
.BackColor = vbBlue
```

```
.ForeColor = vbRed
```

```
End With
```

```
End Sub
```

```
Private Sub UserForm_MouseMove(ByVal Button As Integer, ByVal Shift As Integer,  
ByVal X As Single, ByVal Y As Single)
```

```
'Efek mouse
```

```
With CommandButton1
```

```
.BackColor = &H8000000F
```

```
.ForeColor = RGB(0, 0, 0)
```

```
End With
```

```
With CommandButton2
```

```
.BackColor = &H8000000F
```

```
.ForeColor = RGB(0, 0, 0)
```

```
End With
```

```
End Sub
```

BAB VIII

Variable

71. Pengulangan no urut

```
Sub Contoh1()  
Dim INomor As Long  
For INomor = 1 To 25 Step 1  
Sheets("Dataku").Range("A" & INomor + 1).Value = INomor  
Next INomor  
End Sub
```

72. Setiap pengulangan tambah 3

```
Sub Contoh2()  
Dim INomor As Long, IBaris As Long  
IBaris = 2
```

```
For INomor = 1 To 25 Step 3
Sheets("Dataku").Range("A" & lBaris).Value = INomor
lBaris = lBaris + 1
Next INomor
End Sub
```

73. Setiap pengulangan dikurang 3

```
Sub Contoh3()
Dim INomor As Long, lBaris As Long
lBaris = 2
For INomor = 25 To 1 Step -3
Sheets("Dataku").Range("A" & lBaris).Value = INomor
lBaris = lBaris + 1
Next INomor
End Sub
```

74. Pengulangan dari baris 1 tambah 1 lompat baris ke 3

```
Sub Contoh4()
Dim INomor As Long, lBaris As Long
lBaris = 1
```

```
For lBaris = 1 To 50 Step 3
Sheets("Dataku").Range("A" & lBaris).Value = lNomor
lNomor = lNomor + 1
Next lBaris
End Sub
```

75. Pengulangan dari baris 2 tambah 1 lompat baris ke 4

Sub Contoh5()

```
Dim lNomor As Long, lBaris As Long
lNomor = 1
For lBaris = 2 To 50 Step 4
Sheets("Dataku").Range("A" & lBaris).Value = lNomor
lNomor = lNomor + 1
Next lBaris
End Sub
```

76. Pengulangan 2 Kolom

Sub Contoh6()

```
Dim lNomor As Long, lBaris As Long, lKode As Long
lBaris = 2
```



```
For INomor = 1 To 25
For IKode = 10 To 25 Step 5
Sheets("Dataku").Range("A" & lBaris).Value = INomor
Sheets("Dataku").Range("B" & lBaris).Value = IKode
lBaris = lBaris + 1
Next IKode
Next INomor
End Sub
```

77.Pengulangan 2 Kolom silang

Sub Contoh70

```
No = 0
For NOMOR = 0 To 25 Step 2
No = NOMOR + 1
Cells(No + 1, 1).Value = No
Next NOMOR
Na = 0
For Nama = 1 To 25 Step 2
Na = Nama + 1
Cells(Na + 1, 2).Value = Na
Next Nama
```

End Sub

78. Setiap pengulangan tambah 1 menampilkan seri warna

Sub Contoh8()

Dim i

For i = 1 To 56

Cells(i, 1).Interior.ColorIndex = i

Cells(i, 1) = i

Next i

End Sub

79. Pengulangan N0 seri warna 2 Kolom

Sub Contoh9()

Dim i

For i = 1 To 56

Cells(i, 2).Interior.ColorIndex = i

Cells(i, 2) = i

Next i

End Sub

80. Pengulangan Lembar Print Out

Sub tambah_sheets()

Sheets(array("sheet1", "Sheet2", "Sheet3")).Printout

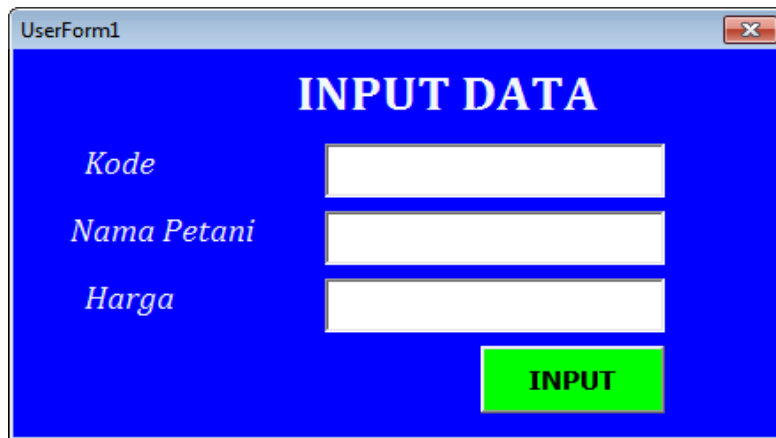
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End sub

BAB IX

Input Data

81. Input dengan user Form Satu sheet



The screenshot shows a VBA UserForm window titled "UserForm1". The form has a blue background and white text. At the top center, it says "INPUT DATA". Below this, there are three input fields. The first is labeled "Kode", the second "Nama Petani", and the third "Harga". At the bottom right of the form, there is a green button with the text "INPUT".

```
Private Sub CommandButton1_Click()
```

```
Dim irow As Long
```

```
'Deklarasi irow input atau mengisi baris terakhir pada sheet1
```

```
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```

```
irow = Worksheets("sheet1").Cells(Rows.Count, 2).End(xlUp).Offset(1, 1).Row  
Worksheets("sheet1").Cells(irow, 2).Value = TextBox1.Value  
Worksheets("sheet1").Cells(irow, 3).Value = TextBox2.Value  
Worksheets("sheet1").Cells(irow, 4).Value = TextBox3.Value
```

'Pesan sdh di input

```
MsgBox ("Data sudah tersimpan di sheet1 ")  
End Sub
```

82.Input dengan user Form ke Multy sheet

```
Private Sub CommandButton1_Click()
```

```
Dim Arow As Long  
Dim Brow As Long  
Dim Crow As Long
```

'Deklarasi Arow input atau mengisi baris terakhir pada sheet1

```
Arow = Worksheets("sheet1").Cells(Rows.Count, 2).End(xlUp).Offset(1, 1).Row  
Worksheets("sheet1").Cells(Arow, 2).Value = TextBox1.Value  
Worksheets("sheet1").Cells(Arow, 3).Value = TextBox2.Value  
Worksheets("sheet1").Cells(Arow, 4).Value = TextBox3.Value
```

'Deklarasi Brow input atau mengisi baris terakhir pada sheet2

```
Brow = Worksheets("sheet2").Cells(Rows.Count, 2).End(xlUp).Offset(1, 1).Row  
Worksheets("sheet2").Cells(Brow, 2).Value = TextBox1.Value  
Worksheets("sheet2").Cells(Brow, 3).Value = TextBox2.Value  
Worksheets("sheet2").Cells(Brow, 4).Value = TextBox3.Value
```

'Deklarasi Crow input atau mengisi baris terakhir pada sheet3

```
Crow = Worksheets("sheet3").Cells(Rows.Count, 2).End(xlUp).Offset(1, 1).Row  
Worksheets("sheet3").Cells(Crow, 2).Value = TextBox1.Value  
Worksheets("sheet3").Cells(Crow, 3).Value = TextBox2.Value  
Worksheets("sheet3").Cells(Crow, 4).Value = TextBox3.Value
```

'kosongkan textbox

```
TextBox1.Value = ""  
TextBox2.Value = ""  
TextBox3.Value = ""
```

'Pesan sdh di input

```
MsgBox ("Data sudah tersimpan di tiga sheet ")  
End Sub
```

83. Input Range

Menulis pada Sheet1 Cell Tertentu

Sub Ketik()

```
Sheets("Sheet1").Range("a4").Value = "Data Kelas Satu"  
Sheets("Sheet1").Range("a5").Value = "Absen Bulanan"  
End Sub
```

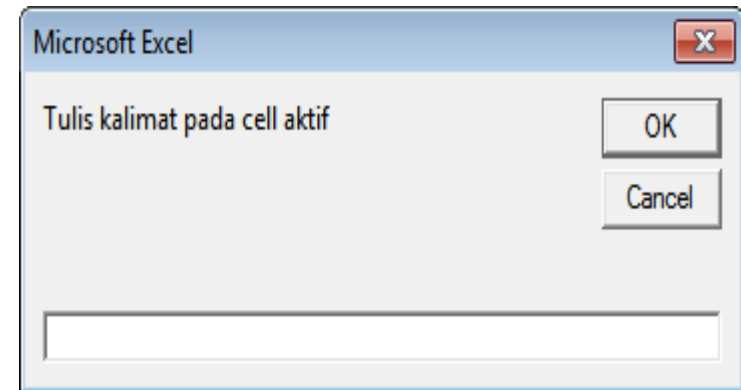
84. Input pilihan Kolom kriteria Combobox

Private Sub CommandButton1_Click()

```
Dim irow As Long  
irow = Worksheets("Sheet1").Cells(Rows.Count, 2).End(xlUp).Offset(1, 1).Row  
Worksheets("Sheet1").Cells(irow, 2).Value = TextBox1.Value  
Worksheets("Sheet1").Cells(irow, 3).Value = TextBox2.Value  
  
If ComboBox1.Text = "Januari" Then  
Worksheets("Sheet1").Cells(irow, 4).Value = TextBox3.Value  
ElseIf ComboBox1.Text = "Februari" Then  
Worksheets("Sheet1").Cells(irow, 5).Value = TextBox3.Value  
ElseIf ComboBox1.Text = "Maret" Then  
Worksheets("Sheet1").Cells(irow, 6).Value = TextBox3.Value  
End If  
End Sub
```

85. Input ke active cell

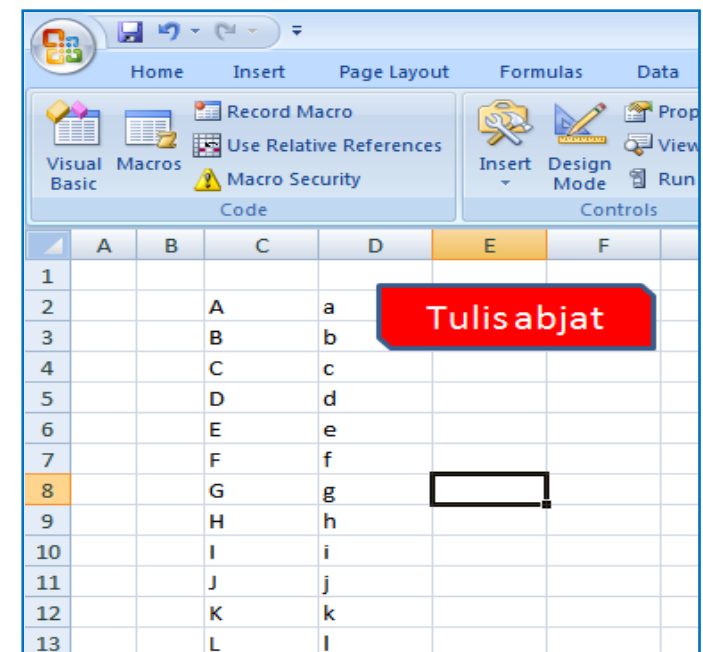
```
Sub GetInput()  
Dim str As String  
Do  
str = InputBox("Tulis kalimat pada cell aktif")  
If str <> "" Then  
ActiveCell.Value = str  
Exit Do  
End If  
Loop  
End Sub
```



86. Input Abjad A-Z ke active cell

```
Sub Hurup_Abjat()  
Dim iChar As Integer  
For iChar = 0 To 25  
'write upper case letters  
ActiveCell.Offset(iChar, 0) = Chr(65 + iChar)  
'write lower case letters  
ActiveCell.Offset(iChar, 1) = Chr(97 + iChar)  
Next
```

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End Sub

BAB X

Tampilkan Data

87. Menampilkan data ComboBox di TextBox

```
Private Sub CommandButton1_Click()
```

```
cari = ComboBox1.Value
```

```
With Worksheets("Sheet1").Range("A6:A58")
```

```
Set c = .Find(cari, LookIn:=xlValues)
```

```
If Not c Is Nothing Then
```

```
baris = c.Row
```

```
ComboBox1.Value = Worksheets("Sheet1").Cells(baris, 1).Value
```

```
TextBox2.Value = Worksheets("Sheet1").Cells(baris, 2).Value
```

```
TextBox3.Value = Worksheets("Sheet1").Cells(baris, 3).Value
```

```
TextBox4.Value = Worksheets("Sheet1").Cells(baris, 4).Value
```

```
TextBox5.Value = Worksheets("Sheet1").Cells(baris, 5).Value
```

```
TextBox6.Value = Worksheets("Sheet1").Cells(baris, 6).Value
```

```
TextBox7.Value = Worksheets("Sheet1").Cells(baris, 7).Value
```

```
Else
```

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UserForm1

Form Tampilkan Data

01 Cari

1313

555

AHMAD ARIIL YUSEN

Perempuan

PARURA JAYA

18/04/2010

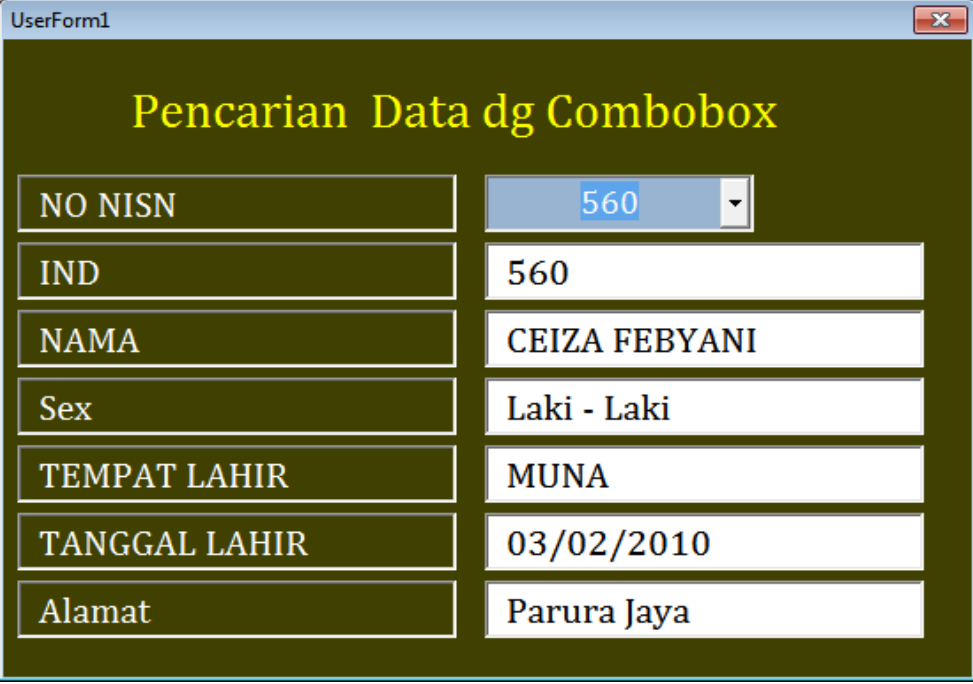
MsgBox "code name no detec"

End If

End With

End Sub

Menampilkan pencarian dengan ComboBox `_Click()`



Pencarian Data dg Combobox	
NO NISN	560
IND	560
NAMA	CEIZA FEBYANI
Sex	Laki - Laki
TEMPAT LAHIR	MUNA
TANGGAL LAHIR	03/02/2010
Alamat	Parura Jaya

Private Sub ComboBox1_Click()

'PENCARIAN dengan combobox Click()

Cari = ComboBox1.Value

With Worksheets("Sheet1").Range("c5:c50")

Set c = .Find(Cari, LookIn:=xlValues)

If Not c Is Nothing Then

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```
baris = c.Row
TextBox2.Value = Worksheets("Sheet1").Cells(baris, 3).Value
TextBox3.Value = Worksheets("Sheet1").Cells(baris, 4).Value
TextBox4.Value = Worksheets("Sheet1").Cells(baris, 5).Value
TextBox5.Value = Worksheets("Sheet1").Cells(baris, 6).Value
TextBox6.Value = Worksheets("Sheet1").Cells(baris, 7).Value
TextBox7.Value = Worksheets("Sheet1").Cells(baris, 8).Value
Else
MsgBox "NAMA BELUM TERDAFTAR"
End If
End With
End Sub
```

```
Private Sub UserForm_Initialize()
```

```
'label otomatis
```

```
TextBox8.Value = Worksheets("Sheet1").Cells(5, 3).Value
TextBox9.Value = Worksheets("Sheet1").Cells(5, 2).Value
TextBox10.Value = Worksheets("Sheet1").Cells(5, 4).Value
TextBox11.Value = Worksheets("Sheet1").Cells(5, 5).Value
TextBox12.Value = Worksheets("Sheet1").Cells(5, 6).Value
TextBox13.Value = Worksheets("Sheet1").Cells(5, 7).Value
TextBox14.Value = Worksheets("Sheet1").Cells(5, 8).Value
```

```
'Combobox list
```

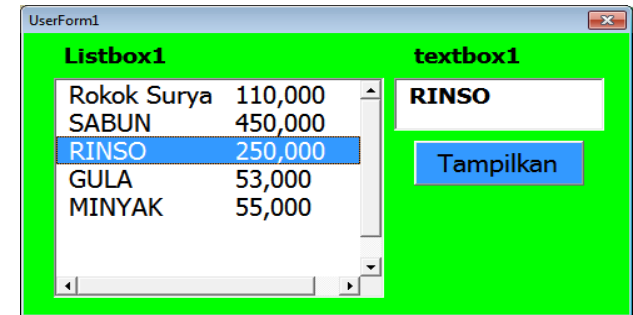
```
For Jmlh = 6 To 55
Nilai = Range("c" & Jmlh)
ComboBox1.AddItem Nilai
Next Jmlh
End Sub
```

88. Menampilkan data ListBox di TextBox

```
Private Sub ListBox1_Click()
```

```
Me.TextBox1.Text = Me.ListBox1.Value
```

```
End Sub
```

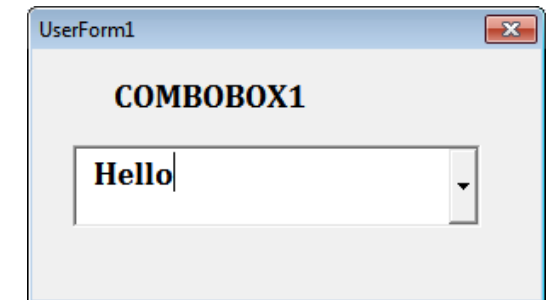


89. Menampilkan data Sheets di ComboBox

```
Private Sub UserForm_Initialize()
```

```
Me.ComboBox1.Value = Sheets("Sheet1").Range("A1").Value
```

```
End Sub
```



90. Menampilkan data Sheets di ListBox

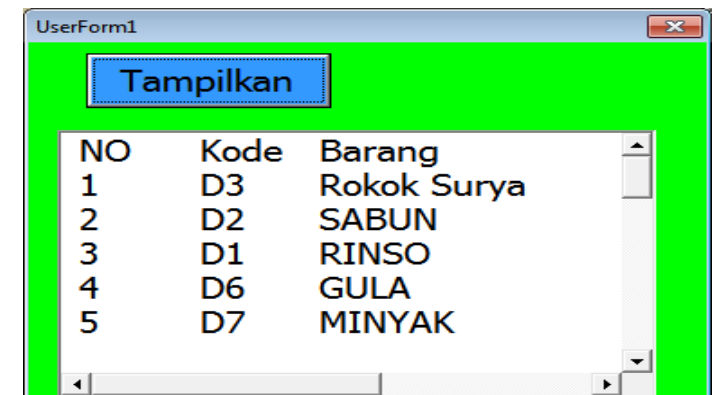
```
Private Sub CommandButton1_Click()
```

```
ListBox1.ColumnCount = 4
```

```
ListBox1.ColumnWidths = 50 & ";" & 50 & ";" & 150 & ";" & 150
```

```
ListBox1.RowSource = "data"
```

```
End Sub
```



91. Menampilkan data TextBox di data Sheets

```
Private Sub UserForm_Initialize()
```

```
Worksheets("Data").Range("D6").Value = UserForm1.TextBox1.Value  
End Sub
```

92. Menampilkan text label

```
Private Sub UserForm_Initialize()
```

```
'menampilkan Label
```

```
UserForm1.Label1.Caption = "Halo Putu Asana ?"  
End sub
```

93. Menampilkan isian pada textbox1

```
Private Sub UserForm_Initialize()
```

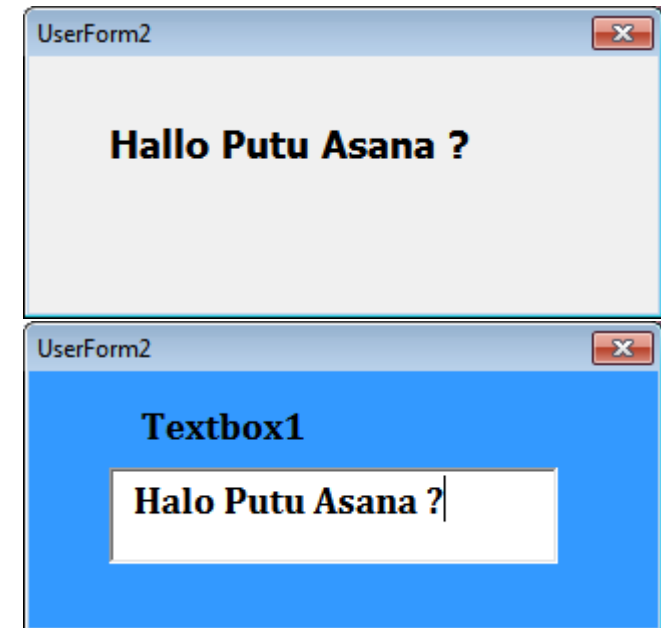
```
Me.TextBox1.Text = "Halo Putu Asana"  
End sub
```

94. Menampilkan isian Dropdwon pada lisbox

```
Private Sub UserForm_Initialize()
```

```
UserForm1.ListBox1.RowSource = Worksheets(1).Range("A1:A10").Address  
End sub
```

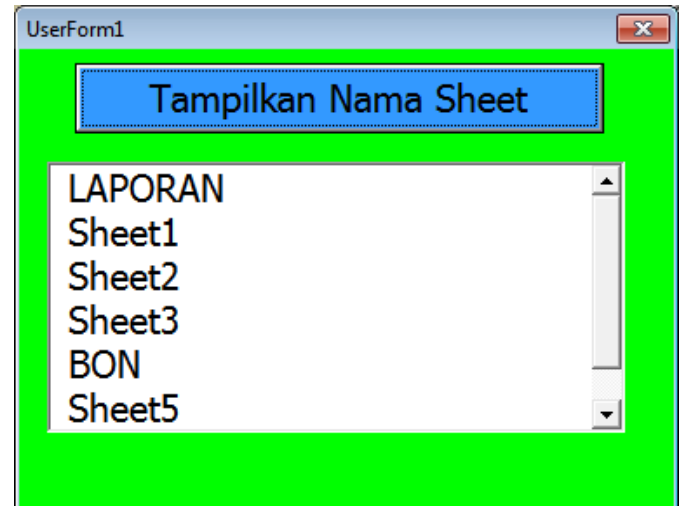
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95. Menampilkan Daftar Sheet pada Lisbox

```
Private Sub CommandButton1_Click()
```

```
Dim J As Integer, N As Integer  
Dim sName As String  
Dim oSheet As Object  
With UserForm2.ListBox1  
For Each oSheet In Sheets  
If TypeName(oSheet) = "Worksheet" Or _  
TypeName(oSheet) = "Chart" Then  
.AddItem oSheet.Name  
End If  
Next  
End With  
End Sub
```



96. Menampilkan Daftar nama Sheet di kolom A

```
Sub daftar_Nama_sheets()
```

```
'Daftar link dan nama sheet
```

```
Dim i As Long
```

```
For i = 1 To Sheets.Count
```

```
With ActiveSheet
```

```
.Hyperlinks.Add _
```

```
Anchor:=ActiveSheet.Cells(i, 1), _
```

```
Address:="", _
```

```
SubAddress:="" & Sheets(i).Name & "!A1", _
```

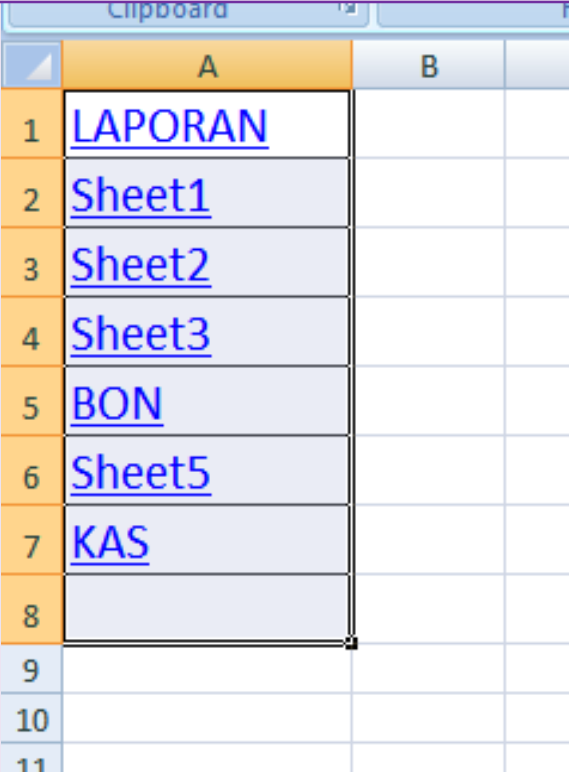
```
ScreenTip:=Sheets(i).Name, _
```

```
TextToDisplay:=Sheets(i).Name
```

```
End With
```

```
Next i
```

```
End Sub
```



The screenshot shows an Excel spreadsheet with a single column of data in column A. The rows contain the following text: LAPORAN, Sheet1, Sheet2, Sheet3, BON, Sheet5, KAS. The text is blue and underlined, indicating it is a hyperlink. The spreadsheet is titled 'Clipboard' and shows columns A and B, and rows 1 through 11.

	A	B
1	LAPORAN	
2	Sheet1	
3	Sheet2	
4	Sheet3	
5	BON	
6	Sheet5	
7	KAS	
8		
9		
10		
11		

97. Menampilkan Daftar nama File dari sebuah Folder

Sub `Get_link_file()`

```
Dim xFSO As Object
Dim xFolder As Object
Dim xFile As Object
Dim xFiDialog As FileDialog
Dim xPath As String
Dim I As Integer
Set xFiDialog = Application.FileDialog(msoFileDialogFolderPicker)
If xFiDialog.Show = -1 Then
    xPath = xFiDialog.SelectedItems(1)
End If
Set xFiDialog = Nothing
If xPath = "" Then Exit Sub
Set xFSO = CreateObject("Scripting.FileSystemObject")
Set xFolder = xFSO.GetFolder(xPath)
For Each xFile In xFolder.Files
    I = I + 1
    ActiveSheet.Hyperlinks.Add Cells(I, 1), xFile.Path, , , xFile.Name
Next
End Sub
```



BAB XI

Edit dan Inport data

98.Edit data baris

The screenshot shows a window titled 'UserForm1' with a dark green background and yellow text. The main title is 'Form Edit Data Baris'. The form contains several input fields and a button:

Field Label	Value
NO NISN	559
IND	559
NAMA	BAYU
Sex	Laki - Laki
TEMPAT LAHIR	RAHA
TANGGAL LAHIR	15/10/2010
Alamat	Parura Jaya

An 'EDIT' button is located to the right of the NO NISN field.

Private Sub CommandButton1_Click()

'edit data

Dim pesan As Integer

pesan = MsgBox("Yakin ingin memperbaiki data baris ini?", vbYesNo + vbQuestion, "Peringatan")

If pesan = vbYes Then

Data = ComboBox1.Value

With Worksheets("SHEET1").Range("C6:C58")

Set c = .Find(Data, LookIn:=xlValues)

If Not c Is Nothing Then

baris = c.Row

Worksheets("SHEET1").Cells(baris, 3).Value = ComboBox1.Value

Worksheets("SHEET1").Cells(baris, 2).Value = TextBox2.Value

Worksheets("SHEET1").Cells(baris, 4).Value = TextBox3.Value

Worksheets("SHEET1").Cells(baris, 5).Value = TextBox4.Value

Worksheets("SHEET1").Cells(baris, 6).Value = TextBox5.Value

Worksheets("SHEET1").Cells(baris, 7).Value = TextBox6.Value

Worksheets("SHEET1").Cells(baris, 8).Value = TextBox7.Value

End If

End With

ComboBox1.Value = ""

TextBox2.Value = ""

TextBox3.Value = ""

TextBox4.Value = ""

TextBox5.Value = ""

TextBox6.Value = ""

TextBox7.Value = ""

ComboBox1.SetFocus

End If

End Sub

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```
Private Sub ComboBox1_Click()
```

```
'Menampilkan data sebelum diedit
```

```
Cari = ComboBox1.Value
```

```
With Worksheets("Sheet1").Range("c5:c50")
```

```
Set c = .Find(Cari, LookIn:=xlValues)
```

```
If Not c Is Nothing Then
```

```
baris = c.Row
```

```
TextBox2.Value = Worksheets("Sheet1").Cells(baris, 3).Value
```

```
TextBox3.Value = Worksheets("Sheet1").Cells(baris, 4).Value
```

```
TextBox4.Value = Worksheets("Sheet1").Cells(baris, 5).Value
```

```
TextBox5.Value = Worksheets("Sheet1").Cells(baris, 6).Value
```

```
TextBox6.Value = Worksheets("Sheet1").Cells(baris, 7).Value
```

```
TextBox7.Value = Worksheets("Sheet1").Cells(baris, 8).Value
```

```
Else
```

```
MsgBox "NAMA BELUM TERDAFTAR"
```

```
End If
```

```
End With
```

```
End Sub
```

```
Private Sub UserForm_Initialize()
```

```
'Menampilkan label otomatis
```

```
TextBox8.Value = Worksheets("Sheet1").Cells(5, 3).Value
```

```
TextBox9.Value = Worksheets("Sheet1").Cells(5, 2).Value
```

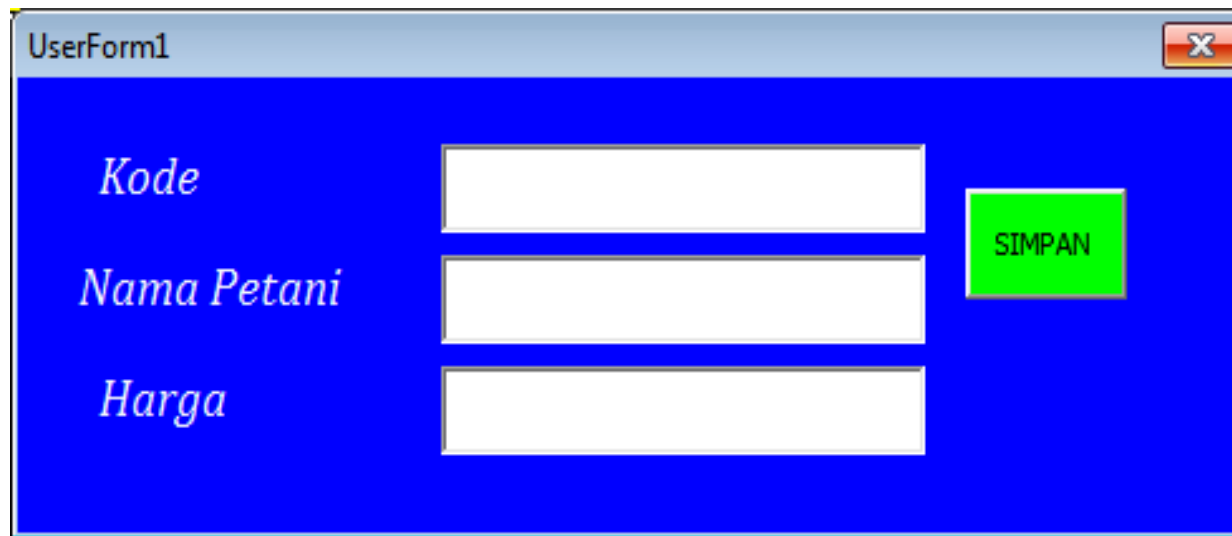
```
TextBox10.Value = Worksheets("Sheet1").Cells(5, 4).Value
```

```
TextBox11.Value = Worksheets("Sheet1").Cells(5, 5).Value  
TextBox12.Value = Worksheets("Sheet1").Cells(5, 6).Value  
TextBox13.Value = Worksheets("Sheet1").Cells(5, 7).Value  
TextBox14.Value = Worksheets("Sheet1").Cells(5, 8).Value
```

List combobox

```
For Jmlh = 6 To 55  
Nilai = Range("c" & Jmlh)  
ComboBox1.AddItem Nilai  
Next Jmlh  
End Sub
```

99. Edit data sederhana



The image shows a VBA UserForm window titled "UserForm1". The form has a blue background and contains three text input fields. The first field is labeled "Kode", the second "Nama Petani", and the third "Harga". To the right of these fields is a green button with the text "SIMPAN". The window has a standard Windows-style title bar with a close button (X) in the top right corner.

Private Sub CommandButton1_Click()

Dim pesan As Integer

pesan = MsgBox("Yakin ingin menyimpan Data HARGA baris ini?", vbYesNo + vbQuestion, "Peringatan")

If pesan = vbYes Then

Data = TextBox1.Value

With Worksheets("HARGA").Range("A6:A58")

Set c = .Find(Data, LookIn:=xlValues)

If Not c Is Nothing Then

baris = c.Row

Worksheets("HARGA").Cells(baris, 1).Value = TextBox1.Value

Worksheets("HARGA").Cells(baris, 2).Value = TextBox2.Value

Worksheets("HARGA").Cells(baris, 3).Value = TextBox3.Value

End If

End With

TextBox1.Value = ""

TextBox2.Value = ""

TextBox3.Value = ""

TextBox1.SetFocus

End If

End Sub

100.Edit data baris kreteria

Sub hapus_baris_Kreteria()

```
Dim r As Range, d As Range
Set r = Range("d5:d20")
Application.ScreenUpdating = False
For Each d In r
If d.Value = 1 Then
d.EntireRow.Value = ""
Else
End If
Next d
Application.ScreenUpdating = True
End Sub
```

101.Impor data antar Worksheet

Sub DoCopyExample1()

```
Dim srceRng As Range
Dim destRng As Range
Set srceRng = _
```

```
Workbooks("book1.xlsm").Sheets("sheet1").Range("A1:d10")  
Set destRng = _  
Workbooks("book1.xlsm").Sheets("sheet2").Range("A1")  
srceRng.Copy  
Workbooks("book1.xlsm").Sheets("sheet2").Paste destRng  
destRng.Parent.Paste destRng  
srceRng.Copy destRng  
End Sub
```

102.Import data Multy file menjadi satu file

Sub mergeFiles()

```
Dim numberOfFilesChosen, i As Integer  
Dim tempFileDialog As FileDialog  
Dim mainWorkbook, sourceWorkbook As Workbook  
Dim tempWorkSheet As Worksheet  
Set mainWorkbook = Application.ActiveWorkbook  
Set tempFileDialog = Application.FileDialog(msoFileDialogFilePicker)  
'Allow the user to select multiple workbooks  
tempFileDialog.AllowMultiSelect = True  
numberOfFilesChosen = tempFileDialog.Show  
' Loop through all selected workbooks
```

```
For i = 1 To tempFileDialog.SelectedItems.Count
'Open each workbook
Workbooks.Open tempFileDialog.SelectedItems(i)
Set sourceWorkbook = ActiveWorkbook
' Copy each worksheet to the end of the main workbook
For Each tempWorkSheet In sourceWorkbook.Worksheets
tempWorkSheet.Copy
after:=mainWorkbook.Sheets(mainWorkbook.Worksheets.Count)
Next tempWorkSheet
' Close the source workbook
sourceWorkbook.Close
Next i
End Sub
```

BAB XII

Filtar & xlAscending

103. Mengurutkan data dari kecil ke besar Pada data range

```
Sub kecil_besar ()
```

```
Range("DataRange").Sort Key1:=Range("A1"), Order1:=xlAscending,
```

```
Header:=xlYes
```

```
End Sub
```

104. Mengurutkan data dari besar ke kecil Pada data range

```
Sub besar ()
```

```
Range("DataRange").Sort Key1:=Range("A1"), Order1:=xlDescending,
```

```
Header:=xlYes
```

```
End Sub
```

105. Filter pada list Combobox

```
Private Sub UserForm_Initialize()
```

```
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```



```

Dim Cabang As Range, UniqCabang, n As Long
Set Tbl = Sheets("Sheet1").Cells(4, 1).CurrentRegion
Set Cabang = Tbl.Offset(2, 1).Resize(Tbl.Rows.Count - 2, 1)
UniqCabang = LOUV(Cabang)
ComboBox1.Clear
For n = LBound(UniqCabang) To UBound(UniqCabang)
    ComboBox1.AddItem UniqCabang(n)
Next n
End Sub

```

106. Mengurutkan data dari kecil ke besar sesuai kolom pilihan

Suburut_dikolom_B ()

```

ActiveSheet.Range("B5:m55").Sort _
Key1:=Range("b5"), Order1:=xlAscending, Header:=xlYes
ActiveSheet.Range("B6:B55").Interior.ColorIndex = 2 ' 5=Biru
MsgBox "data telah diurutkan berdasarkan No Induk Siswa"
Unload Me
End Sub

```

107.Mengurutkan data dari besarke kecil sesuai kolom pilihan

Sub urut_dikolom_D ()

```
ActiveSheet.Range("B5:m55").Sort_  
Key1:=Range("D5"), Order1:=xlDescending, Header:=xlYes  
ActiveSheet.Range("d6:d55").Interior.ColorIndex = 2 ' 5=Biru  
MsgBox "data telah diurutkan berdasarkan Nama Siswa"  
Unload Me  
End Sub
```

Mengurutkan data dari A ke Z data unik

The screenshot shows the Excel Developer tab with the VBA editor open. The macro 'Sub urut_dikolom_D ()' is being executed. The data in column B is 'LIST1' and column D is 'Jhonson, Bagong, dadang, Dave, Deepanshu, Sohan, Neha'. A 'RUN' button is visible. The data in column D is sorted from largest to smallest.

	A	B	C	D	E	F	G
1							
2		LIST1		LIST1			
3		Jhonson		Jhonson			
4		Bagong		Bagong			
5		Jhonson		dadang			
6		dadang		Dave			
7		Dave		Deepanshu			
8		Deepanshu		Sohan			
9		Sohan		Neha			
10		Neha					
11		Deepanshu					
12		Neha					
13		Deepanshu					
14		Neha					
15		Sohan					
16							
17							
18							
19							

Option Explicit

Sub CreateUniqueList()

Dim lastrow As Long

lastrow = Cells(Rows.Count, "B").End(xlUp).Row

ActiveSheet.Range("B2:B" & lastrow).AdvancedFilter _

Action:=xlFilterCopy, _

CopyToRange:=ActiveSheet.Range("D2"), _

UNIQUE:=True

End Sub

108.Filter Tanggal

Filter data berdasarkan tanggal awal dan tanggal akhir

tanggal awal = L1

dan tanggal akhir = L2 Filter table dimulai di Cell B4

Sub Filter_Tgl()

Dim TglAwal As Date

Dim i As Long, Interval As Long

With Sheets("KELUAR")

If.FilterMode Then AutoFilter = False

TglAwal = Format(.Range("L1").Value, "dd/mm/yyyy")

Interval = (.Range("L2") - .Range("L1")) + 1

i = TglAwal

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```
.Range("B4").AutoFilter Field:=1, Criteria1:=">=" & i, Operator:=xlAnd, Criteria2:="<" & i +  
Interval  
End With  
End Sub
```

109. Filter data dengan menyembunyikan baris kosong

Filter data dengan menyembunyikan selain data pilihan Dengan kolom bantu
=IFERROR(IF(\$D\$3=3;3;0);"") Setiap data dikolom bantu bernilai 0 akan
disembunyikan

Sub Row_blank()

```
Dim r As Range, c As Range  
Set r = Range("g7:g50")  
Application.ScreenUpdating = False  
For Each c In r  
If Len(c.Text) = 0 Then  
c.EntireRow.Hidden = True  
Else  
c.EntireRow.Hidden = False  
End If  
Next c  
Range("a1").Select  
End Sub
```

BAB XIII

Row atau baris

110. Mengetahui posisi Cell aktif

Sub MyPosition()

```
myRow = ActiveCell.Row  
myCol = ActiveCell.Column  
Msgbox myRow & "," & myCol  
End Sub
```

111.ActiveCell.Address

Mengetahui cell adress yang sedang aktif, ini berguna jika ingin membuat formula

Sub MyAddress()

```
MsgBox ActiveCell.Address(RowAbsolute:=False, columnAbsolute:=False)  
End Sub
```

112. Menemukan baris kosong paling akhir

```
Sub Kosong_terbawah()
```

```
Range("a65536").End(xlUp).Offset(1, 0).Select  
End Sub
```

```
Sub Kosong_terbawah1()
```

```
Dim firstBlank As Range  
Set firstBlank = Range("A1").End(xlDown).Offset(1, 0)  
MsgBox firstBlank.Address  
End Sub
```

113. Membuat nama range

```
Sub RngName()
```

```
Selection.Name = "myRange"  
End Sub
```

114.Address ke nama range

Sub go_Nama_siswa()

```
Application.Goto Reference:="siswa"  
Range("siswa").Select  
End Sub
```

115.Auto fit Row (Mengatur ukuran Baris /Kolom)

Sub AutoFitRows()

```
Cells.Select  
Cells.EntireRow.AutoFit  
End Sub
```

116.Menampilkan kembali baris yang disembunyikan

Sub normal()

```
Rows("8:20").Hidden = False  
End Sub
```

117.Sembunyikan Baris Kosong

```
Sub HidenRowblank ()
```

```
Dim r As Range, c As Range
```

```
Set r = Range("c8:c20")
```

```
Application.ScreenUpdating = False
```

```
For Each c In r
```

```
If Len(c.Text) = 0 Then
```

```
c.EntireRow.Hidden = True
```

```
Else
```

```
c.EntireRow.Hidden = False
```

```
End If
```

```
Next c
```

```
Range("a1").Select
```

```
End Sub
```

118.Menghapus baris yang kosong

```
Sub deletRowBlank ()
```

```
Dim row As Long
```

```
Dim pesan As Integer
```

```
pesan = MsgBox("Are you to delet Blank Row?", vbYesNo + vbQuestion, "Warning")
```

```
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```



```
If pesan = vbYes Then
LastRow = ThisWorkbook.Sheets("Sheet1").Cells(Rows.Count, 1).End(xlUp).row
row = 2
For row = LastRow To row Step -1
If Cells(row, 1) = "" Then
Cells(row, 1).EntireRow.Delete
End If
Next row
End If
End Sub
```

119.Menghapus data baris kreteria

```
Private Sub CommandButton1_Click()
```

```
Dim r As Range, d As Range
Set r = Range("d7:d17")
Application.ScreenUpdating = False
For Each d In r
If d.Value = 1 Then
d.EntireRow.Clear
Else
End If
```

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```
Next d
Application.ScreenUpdating = True
Unload Me
End Sub
```

120. Menandai baris kosong

Sub HighlightBlankCells()

```
Dim Dataset As Range
Set Dataset = Selection
Dataset.SpecialCells(xlCellTypeBlanks).Interior.Color = vbRed
End Sub
```

121. Hide Unhide baris kosong otomatis

menyembunyikan dan menampilkan baris secara otomatis dengan ketentuan nilai kosong dari range tertentu

Private Sub Worksheet_Change(ByVal Target As Range)

```
If Range("b13").Value = "" Then
Rows("14:19").EntireRow.Hidden = True
Else
```

```
Rows("14:19").EntireRow.Hidden = False
If Range("b20").Value = "" Then
Rows("21:26").EntireRow.Hidden = True
Else
Rows("21:26").EntireRow.Hidden = False
End If
End If
End Sub
```

122. Menambah baris pada active cell

```
Sub InsertAlternateRows()
Dim rng As Range
Dim CountRow As Integer
Dim i As Integer
Set rng = Selection
CountRow = rng.EntireRow.Count
For i = 1 To CountRow
ActiveCell.EntireRow.Insert
ActiveCell.Offset(2, 0).Select
Next i
End Sub
```

123. Menyembunyikan baris bernilai 0 atau kosong

```
Dim r As Range, c As Range
Set r = Range("c7:c57")
Application.ScreenUpdating = False
For Each c In r
If Len(c.Text) = 0 Then
c.EntireRow.Hidden = True
Else
c.EntireRow.Hidden = False
End If
Next c
Range("a1").Select
End sub
```

124. Menambah baris sejumlah pesan ditulis pada Msg

```
Sub InsertMultipleRows()
Dim i As Integer
Dim j As Integer
ActiveCell.EntireRow.Select
```

```
On Error GoTo Last
```

```
i = InputBox("Enter number of columns to insert", "Insert Columns")
```

```
For j = 1 To i
```

```
Selection.Insert Shift:=xlToDown, CopyOrigin:=xlFormatFromRightorAbove
```

```
Next j
```

```
Last:
```

```
Exit Sub
```

```
End Sub
```

125. Menandai baris yang akan dihapus

```
Dim row As Long
```

```
Dim pesan As Integer
```

```
pesan = MsgBox("are you deleting no duplicate?", vbYesNo + vbQuestion,  
"Peringatan")
```

```
If pesan = vbYes Then
```

```
MsgBox "TANDAI = Menandai nama siswa )" & vbCrLf & "PILIH = Sistem akan  
mebuang nama yang tidak dipilih!"
```

```
Sheets("data8").Range("a7:a300").clear
```

```
ActiveSheet.Columns(6).Insert Shift:=xlRight
```

```
Columns("F:F").Select  
Selection.Delete Shift:=xlToLeft
```

126. Mengambil data baris terakhir.

Private Sub UserForm_Initialize()

```
BarisTerakhir = Worksheets("Sheet1").Cells(Rows.Count, 1).End(xlUp).Value  
TextBox1.Value = BarisTerakhir  
End Sub
```

127. Menentukan Ketinggian Baris Cell Active

Sub Row ()

```
Dim cm As Single  
cm = Application.InputBox("Enter Row Height in Centimeters", _  
"Row Height (cm)", Type:=1)  
If cm Then  
Selection.RowHeight = Application.CentimetersToPoints(cm)  
End If  
End Sub
```

BAB XIV

Columns

128. Menentukan tinggi kolom ActiveCell

Sub ColumnWidth ()

```
ActiveCell.EntireColumn.ColumnWidth = 12  
End sub
```

Sub AutoFitColumns()

```
Cells.Select  
Cells.EntireColumn.AutoFit  
End Sub
```

129. Menentukan Lebar Baris

Sub Row_Heigh ()

```
ActiveCell.EntireRow.RowHeight = 15
```

```
End sub
```

130.AutoFit Column semua Worksheet in a Workbook

```
Sub AutoFit_Columns1()
```

```
Dim sht As Worksheet
```

```
For Each sht In ThisWorkbook.Worksheets
```

```
    sht.Cells.EntireColumn.AutoFit
```

```
Next sht
```

```
End Sub
```

131.AutoFit semua Columns on Worksheet

```
Sub AutoFit_Columns5()
```

```
ThisWorkbook.Worksheets("Sheet2").Cells.EntireColumn.AutoFit
```

```
End Sub
```

132. AutoFit Satu Column

Sub AutoFit_Columns2()

```
ThisWorkbook.Worksheets("Sheet2").Columns("B:B").EntireColumn.AutoFit  
End Sub
```

133.AutoFit Multiple Columns

Sub AutoFit_Columns3()

```
ThisWorkbook.Worksheets("Sheet2").Range("C:C,D:D").EntireColumn.AutoFit  
End Sub
```

134.AutoFit Multiple Columns sesuai nama sheets

Sub AutoFit_Columns4()

```
ThisWorkbook.Worksheets("Sheet2").Range("C:D").EntireColumn.AutoFit  
End Sub
```

135.AutoFit Columns Copy paste interior

Sub Copy_ColumnWidth_interior 2()

```
Range("B2:B13").Select
Application.CutCopyMode = False
Selection.Copy
Range("E2").Select
Selection.PasteSpecial Paste:=xlPasteAllUsingSourceTheme, Operation:=xlNone _ ,
SkipBlanks:=False, Transpose:=False
ThisWorkbook.Worksheets("Sheet1").Range("E:E").EntireColumn.AutoFit
End Sub
```

136. Menghapus kolom E pada ActiveSheet

```
Sub hapus_ Columns ()
```

```
With ActiveSheet
ActiveSheet.Columns("E:E").Select
Selection.Delete Shift:=xlToLeft
End With
End Sub
```

137. Columns Hidden (No Kolom)

```
Sembunyikan kolom bila bernilai False
```

Tampilkan kolom bila bernilai True

```
Private Sub CommandButton15_Click()
```

```
ActiveSheet.Columns(7).Hidden = True
```

```
ActiveSheet.Columns(8).Hidden = True
```

```
ActiveSheet.Columns(9).Hidden = False
```

```
End Sub
```

138.Menambah kolom

```
Sub tambah_Kolom_E ()
```

```
ActiveSheet.Columns(6).Insert Shift:=xlRight
```

```
End sub
```

139.Hapus Kolom pada ActiveSheet

```
Sub delet_kolom_F ()
```

```
Columns("F:F").Select
```

```
Selection.Delete Shift:=xlToLeft
```

```
End sub
```

140.Tambah Kolom pada ActiveSheet

```
Sub tambah ()
```

```
With ActiveSheet
```

```
ActiveSheet.Columns(6).Insert Shift:=xlRight
```

```
end sub
```

BAB XV

Color dan Pictures

141. Mewarnai angka sesuai Kreteria

Cells(i, 2).Value artinya (Sasaran kolom 2)
For i = 1 To 20 artinya (B1 sampai B20)
Value > 50 artinya :Angka diatas 50
akan berwarna hitam (5)
dan sebaliknya berwarna merah (3)

Sub sampel ()

'Mewarnai tex

Dim i, counter As Integer

For i = 1 To 20

If Cells(i, 2).Value > 50 Then

counter = counter + 1

Cells(i, 2).Font.ColorIndex = 5

Else

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```
Cells(i, 2).Font.ColorIndex = 3  
End If  
Next i  
End Sub
```

142. Mewarnai Cell Active Vertikal Horizontal

```
Private Sub Worksheet_BeforeDoubleClick(ByVal Target As Range, Cancel As Boolean)
```

```
Dim strRange As String  
strRange = Target.Cells.Address & "," & _  
Target.Cells.EntireColumn.Address & "," & _  
Target.Cells.EntireRow.Address  
Range(strRange).Select  
End Sub
```

143. Warna otomatis cell aktif vertikal dan Horizontal

```
Private Sub Worksheet_SelectionChange(ByVal Target As Range)
```

```
Dim rowNumberValue As Integer, columnNumberValue As Integer, i As Integer, j As Integer
```

```
Cells.Interior.ColorIndex = 0
rowNumberValue = ActiveCell.Row
columnNumberValue = ActiveCell.Column
For i = 1 To rowNumberValue
Cells(i, columnNumberValue).Interior.ColorIndex = 37
Next i
For j = 1 To columnNumberValue
Cells(rowNumberValue, j).Interior.ColorIndex = 37
Next j
End Sub
```

144.Mewarnai Cell Active

```
Private Sub Workbook_SheetSelectionChange(ByVal Sh As Object, ByVal Target As Excel.Range)
Static OldRange As Range
On Error Resume Next
Target.Interior.ColorIndex = 6 ' warna kuning - rubah sesuai selera
OldRange.Interior.ColorIndex = xlColorIndexNone
Set OldRange = Target
End Sub
```

145.Mewarnai Named Ranges

Sub HighlightRanges()

```
Dim RangeName As Name
Dim HighlightRange As Range
On Error Resume Next
For Each RangeName In ActiveWorkbook.Names
Set HighlightRange = RangeName.RefersToRange
HighlightRange.Interior.ColorIndex = 36
Next RangeName
End Sub
```

146.Inser Pictures pada active cell

Menambah Foto Atau Image Pada lembar Excel dengan menggunakan tombol perintah macro

Sub Insert_gambar()

```
Dim PicList() As Variant
Dim PicFormat As String
Dim Rng As Range
Dim sShape As Shape
On Error Resume Next
PicList = Application.GetOpenFilename(PicFormat, MultiSelect:=True)
```

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```

xColIndex = Application.ActiveCell.Column
If IsArray(PicList) Then
xRowIndex = Application.ActiveCell.Row
For lLoop = LBound(PicList) To UBound(PicList)
Set Rng = Cells(xRowIndex, xColIndex)
Set sShape = ActiveSheet.Shapes.AddPicture(PicList(lLoop), msoFalse, msoCTrue, Rng.Left,
Rng.Top, Rng.Width, Rng.Height)
xRowIndex = xRowIndex + 1
Next
End If
End Sub

```

147.Hapus Foto pada areal yang sudah ditentukan

Sub HapusGambar()

```

Dim s As String
Dim pic As Picture
Dim ws As Worksheet
Dim i As Integer
For i = 1 To Sheets.Count
Set ws = Worksheets(i)
For Each pic In ws.Pictures
With pic
s = .TopLeftCell.Address & ":" & .BottomRightCell.Address

```



```
End With
  If Intersect(ws.Range("A1:A30"), ws.Range(s)) Is Nothing Then
    pic.Delete
  End If
Next
Next
End Sub
```

148. Mengubah Tabel selection menjadi Image

```
Sub LinkedPicture()
Selection.Copy
ActiveSheet.Pictures.Paste(Link:=True).Select
End Sub
```

Mewarnai Kolom array

```
Sub Gray_Alt_Rows()
Dim Cell As Range, my_Range As Range
Application.ScreenUpdating = False
Set my_Range = ActiveSheet.Range("B1:B15")
```

```
For Each Cell In my_Range
With Cell.EntireRow
If Cell.Row Mod 2 = 0 Then
.Interior.ColorIndex = 25
.Font.Bold = True
Else
.Interior.ColorIndex = xlNone
.Font.Bold = False
End If
End With
Next
End Sub
```

BAB XVI

Copy Paste

149. Copying A Range sheet yang sama

copy paste dari range A1:A3 ke active cell , sheet yang sama.

Sub CopyRange()

```
Range("A1:A3").Copy Destination:=ActiveCell  
End Sub
```

150. Copying A Range ke sheet tujuan

untuk copy dari range sheet yang berbeda ke active cell

Sub CopyRange1()

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```
Sheets("sheet3").Range("A1:A3").Copy Destination:=ActiveCell  
End Sub
```

151.Copy Destination

CopyDestination adalah mode kopy paste yg akan dipasteikan pada awal range yang sudah ditentukan dan akan menumpang tindis data yang sudah ada

Sub CopyDestination1 ()

```
Sheet1.Range("A1:C1").Copy Destination:=Sheet2.Range("A1")
```

'Sheet1 akan dipasteikan di Sheet2

```
End sub
```

Sub DoCopy_ Destination2 ()

```
Dim szRange As String
```

```
szRange = "a1:d20"
```

```
Worksheets("Data").Range(szRange).Copy _
```

```
Destination:=Worksheets("rekap").Range(szRange)
```

End Sub

152.Copy all sheets (Copy semua sheets yang terisi)

Perintah Copy Semua Sheet yang berisi data

Sub CopyToMaster()

ShtCount = ActiveWorkbook.Sheets.Count

For i = 2 To ShtCount

Worksheets(i).Activate

LastRow = ActiveSheet.Cells(Rows.Count, "D").End(xlUp).Row

Range("A5:H" & LastRow).Select

Selection.Copy

Sheets("Master").Activate

LastRow = ActiveSheet.Cells(Rows.Count, "D").End(xlUp).Select

'Required after first paste to shift active cell down one

Do While Not IsEmpty(ActiveCell)

ActiveCell.Offset(1, 0).Select

Loop

ActiveCell.Offset(0, -3).Select

Selection.PasteSpecial

Next i

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End Sub

153.Copy and PasteSpecial, Values

Sub PasteValues ()

'PasteSpecial ! Bila ada rumus atau formula akan dipastekan 'sebagai Values atau angka

```
Range("A1:B10").Copy
```

```
Range("C2").PasteSpecial Paste:=xlPasteValues
```

```
Application.CutCopyMode = False
```

```
End sub
```

Sub PasteSpecial_Values ()

```
Range("A1:B1").NumberFormat = "$#,##0.000"
```

```
Range("A1").Value = 1.23456789
```

```
Range("A1").Copy
```

```
Range("B1").PasteSpecial Paste:=xlPasteValues, _
```

```
Operation:=xlNone, _
```

```
SkipBlanks:=False, Transpose:=False
```

```
End Sub
```

153.Copy and PasteSpecial, Values beda sheet

Sub Copy_value()

```
Sheet2.Range("A6:n200").Copy  
Sheet3.Range("A6").PasteSpecial Paste:=xlPasteValues  
Application.CutCopyMode = False  
End Sub
```

154.Copy and PasteSpecial all autofit dan Interior

"Hasil Copy Sesuai aslinya jenis dan besar kecilnya Hurup serta warna forn dan interiornya

Sub Macro3()

```
Range("B2:B13").Select  
Application.CutCopyMode = False  
Selection.Copy  
Range("E2").Select  
Selection.PasteSpecial Paste:=xlPasteAllUsingSourceTheme, Operation:=xlNone _  
    , SkipBlanks:=False, Transpose:=False  
    ThisWorkbook.Worksheets("Sheet1").Range("E:E").EntireColumn.AutoFit  
End Sub
```

155.Copy and Paste last row

Sub Copypaste_last_Row()

```
Sheets(2).Range("B5:d8").Copy  
Sheets(1).Cells(Cells.Rows.Count, 1).End(xlUp).Offset(2, 0).PasteSpecial  
Paste:=xlPasteValues  
End Sub
```

156.CopymultiFormat

Sub CopymultiFormat()

```
Range("C5:C7").Copy  
Range("D5:D7").PasteSpecial Paste:=xlPasteValues  
Range("E5:E7").PasteSpecial Paste:=xlPasteFormulas  
Range("F5:F7").PasteSpecial Paste:=xlPasteAll  
End Sub
```

157.Copy Tranpose

Sub Tranpose2()

```
Worksheets("data").Range("A6:K60").Copy  
Worksheets("data1").Range("b6").PasteSpecial Transpose:=True  
End Sub
```


158. Copy Paste visible cell only

Copy Paste Mengabaikan Baris Tersembunyi

```
Sub CopyRow_visible ()
```

```
    Range("A1:EB62").SpecialCells(xlCellTypeVisible).Copy  
    Sheets("Print").Select
```

```
    'copy aktif sheet di pastekan pada sheetnya Sheets("Print")
```

```
    Range("A1").Select
```

```
    lMaxRows = Cells(Rows.Count, "A").End(xlUp).Row
```

```
    Range("A" & lMaxRows + 1).Select
```

```
    Selection.PasteSpecial Paste:=xlValues, Operation:=xlNone, SkipBlanks:= _  
    False, Transpose:=False
```

```
    Range("A1").Select
```

```
End Sub
```

159. Copytranspose_array pada sheet active

```
Sub Copytranspose_array()
```

```
    Dim rangeValues As Variant
```

```
rangeValues = Range("A1:A5").Value  
rangeValues = Application.Transpose(rangeValues)  
Range("a10:e10").Value = rangeValues  
End Sub
```

160.Copytranpose_array pada another sheet

Sub Copytranpose_array2()

```
Dim rangeValues As Variant  
rangeValues = Sheets("data").Range("A1:A5").Value  
rangeValues = Application.Transpose(rangeValues)  
Sheets("rekap").Range("a10:e10").Value = rangeValues  
End Sub
```

BAB XVII

Protec Save & Close Mode

161. Protect semua cell berformula

Sistem akan mengunci semua Cell yang berisi rumus atau formula

Sub lockCellsWithFormulas()

```
With ActiveSheet
```

```
.Unprotect
```

```
.Cells.Locked = False
```

```
.Cells.SpecialCells(xlCellTypeFormulas).Locked = True
```

```
.Protect AllowDeletingRows:=True
```

```
End With
```

```
End Sub
```

162. Protect Sheets dengan pasword

Sub reset()

```
Dim Password
```

```
Password = "120"
```

'membuka Protect sheet

```
Sheets("Transaksi").Protect Password, True, True, True  
Sheets("Transaksi").Unprotect Password
```

'hapus data

```
Worksheets("Transaksi").Range("B4:K500").Value = ""
```

'Protect sheet

```
Password = "120"  
Sheets("Transaksi").Protect Password, True, True, True  
End Sub
```

163. unProtect Sheets dengan pasword

Sub unProtecSheets1 ()

```
Dim Password  
Password = "120"  
Sheets("Sheet1").unProtect Password, True, True, True  
End Sub
```

164. Protect Unprotect Sheets dengan password

```
Sub Protec_unprotec()
```

```
'Protect sheets dulu
```

```
Dim Password
```

```
Password = "120"
```

```
Sheets("Sheet1").Protect Password, True, True, True
```

```
'unProtect sheets
```

```
Sheets("Sheet1").Unprotect Password
```

```
'Kode perintah disini.....
```

```
Sheets("Sheet1").Range("B3:L3").Value = ""
```

```
'Protect sheets kembali
```

```
Sheets("Sheet1").Protect Password, True, True, True
```

```
End Sub
```

165.Protect/Lock Cells with Formulas

```
Sub LockCellsWithFormulas()
```

```
With ActiveSheet
```

```
.Unprotect
```

```
.Cells.Locked = False
```

```
.Cells.SpecialCells(xlCellTypeFormulas).Locked = True
```

```
.Protect AllowDeletingRows:=True
```

```
End With
```

```
End Sub
```

166. Membuka sheet yang diprotec

Pastekan pada sheet yang mau di unprotect

Tekan Run F5 menjalankan modul ini !

```
Sub InternalPasswords()
```

```
Dim i As Integer, j As Integer, k As Integer
```

```
Dim l As Integer, m As Integer, n As Integer
```

```
Dim i1 As Integer, i2 As Integer, i3 As Integer
```

```
Dim i4 As Integer, i5 As Integer, i6 As Integer
```

```
On Error Resume Next
```

```
For i = 65 To 66: For j = 65 To 66: For k = 65 To 66
```

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```
For l = 65 To 66: For m = 65 To 66: For i1 = 65 To 66
For i2 = 65 To 66: For i3 = 65 To 66: For i4 = 65 To 66
For i5 = 65 To 66: For i6 = 65 To 66: For n = 32 To 126
ActiveWorkbook.Unprotect Chr(i) & Chr(j) & Chr(k) & _
Chr(l) & Chr(m) & Chr(i1) & Chr(i2) & Chr(i3) _
& Chr(i4) & Chr(i5) & Chr(i6) & Chr(n)
ActiveSheet.Unprotect Chr(i) & Chr(j) & Chr(k) & _
Chr(l) & Chr(m) & Chr(i1) & Chr(i2) & Chr(i3) _
& Chr(i4) & Chr(i5) & Chr(i6) & Chr(n)
If ActiveWorkbook.ProtectStructure = False Then
If ActiveWorkbook.ProtectWindows = False Then
If ActiveSheet.ProtectContents = False Then
Exit Sub
End If
End If
End If
Next: Next: Next: Next: Next: Next
Next: Next: Next: Next: Next: Next
End Sub
```

167. Menyimpan pembaharuan dengan modul

Sub save1()

Dim pesan As Integer

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```
pesan = MsgBox("are you save this docomen?", vbYesNo + vbQuestion,  
"Peringatan")  
If pesan = vbYes Then  
ActiveWorkbook.Save  
End if  
End sub
```

168. Menyimpan sekaligus menutup aplikasi

```
Private Sub CommandButton1_Click()
```

```
Application.Visible = False  
ThisWorkbook.Save  
ThisWorkbook.Close  
Application.Quit  
Exit Sub
```

169. Save Otomatis dalam waktu yang ditentukan

```
Sub SaveMe()
```

```
ThisWorkbook.Save  
Application.OnTime Now + Timeserial(0,15,0),"SaveMe" Timeserial=(h,m,s)  
End Sub
```


Sub simpan ()

```
Application.OnTime Now + TimeValue("01:00:00"), "Simpan"  
End Sub
```

170. Close Run Otomatic

Workbook akan tertutup dalam waktu yang sudah ditentukan

'PASTEKAN CODE INI PADA MODUL'

Public RunWhen As Double

```
Public Const MENIT = 1 'workbook akan tertutup dalam waktu 3 menit  
Public Sub Tutup()  
    ActiveWorkbook.Save  
    ThisWorkbook.Close savechanges:=False  
End Sub
```

'PASTEKAN CODE INI PADA WOOKBOOKS'

Private Sub Workbook_Open()

```
    On Error Resume Next  
    Application.OnTime RunWhen, "Tutup", , False
```

```
On Error GoTo 0  
RunWhen = Now + TimeSerial(0, MENIT, 0)  
end sub
```

Menutup userform

Private Sub CommandButton2_Click()

```
Unload Me  
End Sub
```

Menutup aplikasi

Private Sub UserForm_Terminate()

```
Application.Quit  
End Sub
```

BAB XVIII

Hyperlink

171. Hyperlink dengan userForm

Membuat hyperling berdasarkan nilai textbox pada sebuah userform

```
Private Sub CommandButton1_Click()
```

```
If TextBox1.Text = "" Then '1
```

```
MsgBox ("Data is blank")
```

```
ElseIf TextBox1.Text = 1 Then
```

```
UserForm1.Hide
```

```
Sheet1.Select
```

```
ElseIf TextBox1.Text = 2 Then
```

```
UserForm1.Hide
```

```
Sheet2.Select
```

```
End If  
End Sub
```

172. Membuat Link ke semua Sheets sebuah file

Sub Gotoallsheet()

```
myShts = ActiveWorkbook.Sheets.Count  
For i = 1 To myShts  
myList = myList & i & " - " & ActiveWorkbook.Sheets(i).Name & " " & vbCr  
Next i  
Dim mySht As Single  
mySht = InputBox("Select sheet to go to."  
& vbCr & vbCr & myList)  
Sheets(mySht).Select  
End Sub
```

173. Hyperlink sesuai tex pada textbox

Private Sub CommandButton1_Click()

'Make hyperlink using userForm

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```
If TextBox1.Text = "" Then '1
MsgBox ("Data is blank")
Elseif TextBox1.Text = 1 Then
UserForm1.Hide
Sheet1.Select
Elseif TextBox1.Text = 2 Then
UserForm1.Hide
Sheet2.Select
End If
End Sub
```

BAB XIX

Print Out & Borders Style

174.Borders sesuai cell tertentu

Sub border()

```
Range("a3:d10").Borders.LineStyle = xlContinuous  
End Sub
```

175.Borders selection cell

Sub interior()

```
With ActiveSheet  
Selection.Cells.Font.ColorIndex = 2 ' white  
Selection.Cells.Interior.ColorIndex = 5 'blue  
End With  
End Sub
```

176. Print out Vlookup

Menempatkan kunci no urut awal dan sampai pada cell untuk
Print Vlookup pada sheet "data"

Cell I22 = Dari

Cell j22 = sampai

Cell h2 = Cell kunci data Vlookup

Sub Cetak_Vlookup ()

Dim Awal, Akhir As Integer

Awal = Range("i22").Value

Akhir = Range("j22").Value

If Awal <= Akhir And Awal >= 1 Then

Application.ScreenUpdating = False

For i = Awal To Akhir

With Sheets("data")

.Range("h2").Value = i

.PrintOut from:=1, To:=1, Copies:=1

End With

Next i

```
Else  
MsgBox "Cek lagi Nomor yang akan dicetak...!!!!", vbCritical, "Error Cetak"  
End If  
End Sub
```

177. Print Vlookup menggunakan User Form

Menempatkan kunci no urut awal dan sampai pada textbox untuk Print Vlookup pada sheet "kwitansi"

Cell k3 = Cell kunci data Vlookup

```
Private Sub CommandButton1_Click()
```

```
Dim Awal, Akhir, Jumlah As Integer
```

```
Awal = TextBox1.Value
```

```
Akhir = TextBox2.Value
```

```
Jumlah = TextBox3.Value
```

```
If Awal <= Akhir And Awal >= 1 Then
```

```
Application.ScreenUpdating = False
```

```
For i = Awal To Akhir
```

```
With Sheets("KWITANSI")
```

```
.Range("k3").Value = i
```

```
.PrintOut from:=Awal, To:=Akhir, Copies:=Jumlah
```



```

End With
Next i
Else
MsgBox "Cek lagi Nomor yang akan dicetak...!!!!", vbCritical, "Error Cetak"
End If
TextBox1.Value = ""
TextBox2.Value = ""
TextBox3.Value = ""
End Sub

```

178. Print Out dari sampai dan jumlah print out

Print Out dari halaman sampai halaman dan

jumlah lembar pada userform

```
Private Sub CommandButton1_Click()
```

```
Dim awal, Akhir, Jumlah As Integer
```

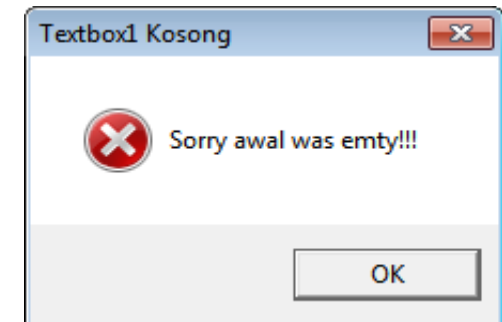
```
If TextBox1.Value = "" Then
```

```
MsgBox "Sorry awal was emty!!!", _
vbOKOnly + vbCritical, "Textbox1 Kosong"
```

```
ElseIf TextBox2.Value = "" Then
```

```
MsgBox "Sorry sampai was emty", _
```

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```

vbOKOnly + vbCritical, "Textbox8 Kosong"
ElseIf TextBox3.Value = "" Then
MsgBox "Sorry jumlah was emty", _
vbOKOnly + vbCritical, "Textbox8 Kosong"
Else
awal = TextBox1.Value
Akhir = TextBox2.Value
Jumlah = TextBox3.Value
Sheets("laporan").PrintOut from:=awal, To:=Akhir, Copies:=Jumlah
TextBox1.Value = ""
TextBox2.Value = ""
TextBox3.Value = ""
End If
End Sub

```

179. Print Out active sheet

Sub Cetak ()

```

ActiveSheet.PrintOut
ActiveSheet. PrintOut from:=1, To:=1, Copies:=1
End Sub

```

form cetak

PRINT OUT

AWAL 1

SAMPAI 2

AWAL 1

Print Out

180. Print Preview active sheet

```
Sub Print_Preview ()
```

```
ActiveSheet.PrintOut Preview:=True, From:=1, To:=2, Copies:=2
```

```
End Sub
```

181. Print Out pilihan sheet

```
Sub CommandButton1_Click()
```

```
Worksheets("menu").PrintOut from:=1, To:=2, Copies:=1
```

```
End Sub
```

182. Print Out awal akhir dan jumlah sesuai data sheet

```
Sub Cetak_sesuai_data_cell()
```

```
Dim Awal, Akhir, Jumlah As Integer
```

```
Awal = Range("b3").Value
```

```
Akhir = Range("b4").Value
```

```
Jumlah = Range("b5").Value
```

```
If Awal <= Awal and Akhir and Jumlah >= 1 Then  
Application.ScreenUpdating = False  
Sheets("data").PrintOut from:=Awal, To:=Akhir, Copies:=Jumlah  
Else
```

```
MsgBox "Cek lagi Nomor yang akan dicetak...!!!!", vbCritical, "Error Cetak"
```

```
End If
```

```
End Sub
```

	A	B	C
1			
2	Print Out		
3	Dari Halaman	1	
4	Sampai Halaman	3	
5	Jumlah Print @halaman	2	
6			
7			
8			
9			
10			
11			

BAB XX

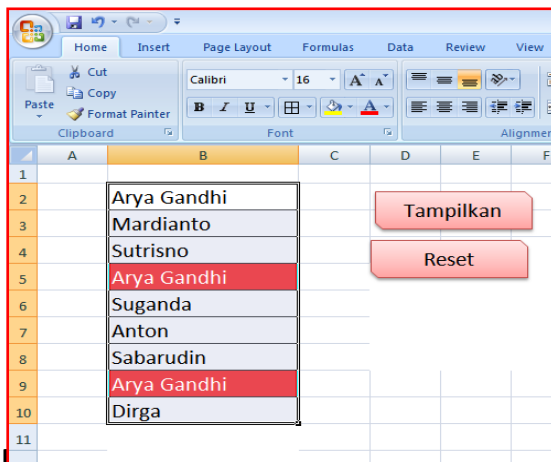
Duplicate & String

183. Menghapus Duplicate

Sub RemoveDuplicates ()

```
Set Rng = ThisWorkbook.Sheets(21).Range("B6:B300")  
Rng.RemoveDuplicates Columns:=Array(1), Header:=xlYes  
End Sub
```

184. Mewarnai Duplicate



Sub Tampilkan()

```
Dim LastRow As Long
Dim matchFoundIndex As Long
Dim iCntr As Long
LastRow = Range("b65000").End(xlUp).Row
For iCntr = 2 To LastRow
If Cells(iCntr, 2) <> "" Then
matchFoundIndex = WorksheetFunction.Match(Cells(iCntr, 2), Range("b1:b" &
LastRow), 0)
If iCntr <> matchFoundIndex Then
Cells(iCntr, 2).Interior.Color = vbRed
Cells(iCntr, 2).Font.Color = vbWhite
End If
End If
Next
End Sub
```

Sub Reset()

```
Sheets(1).Range("B1:B20").Interior.Color = vbWhite
Sheets(1).Range("B1:B20").Font.Color = vbBlack
End Sub
```

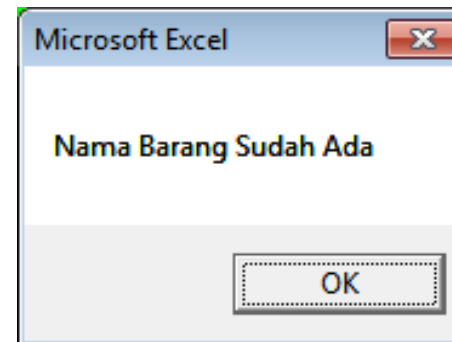
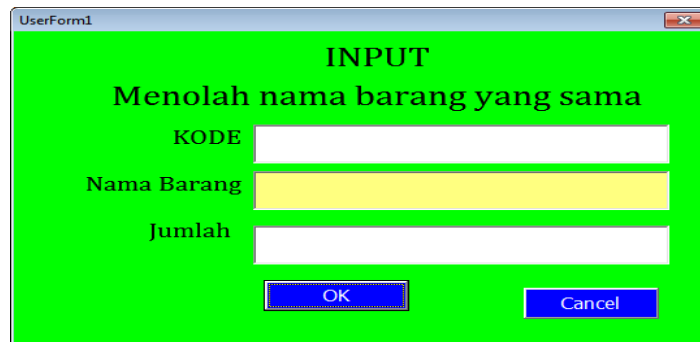
185. Menolak Data Duplikat pada textbox

```
Private Sub TextBox1_Exit(ByVal Cancel As MSForms.ReturnBoolean)
```

```
If Application.CountIf(Range("A:A"), TextBox1) > 0 Then
```

```
MsgBox "Data Sudah Ada"
```

```
End If
```



186. Menghapus dgn Mengabaikan Baris Tersembunyi

```
Sub DeleteVisibleRows()
```

```
Dim WorkRng As Range
```

```
On Error Resume Next
```

```
xTitleId = "KutoolsforExcel"
```

```
Set WorkRng = Application.Selection
```

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```
'Set WorkRng = Application.InputBox("Range", xTitleId, WorkRng.Address, Type:=8)
Application.Screen Updating = False
WorkRng.SpecialCells(xlCellTypeVisible).ClearContents
Application.ScreenUpdating = True
End Sub
```

187.Menghitung Jumlah Karakter Active Cell

Sub CharacterCount()

```
Dim cell As Range
Dim I As Integer
For Each cell In Selection
I = I + Len(cell.Value)
Next
MsgBox "there are " & I & _
" characters and spaces in the selection"
End Sub
```


188.Menghitung Kata Dalam Cell

Sub Hitung_Kata()

Dim rngKata As Range

Dim Len1, Len2 As Long

With Sheet1

Set rngKata = .Range("a3")

Len1 = Len(rngKata)

Len2 = Len1 - Len(Application.WorksheetFunction.Substitute(rngKata, " ", "")) + 1

.Range("b3").Value = Len2

End With

End Sub

189.Menghapus Karakter Selain Angka dan Huruf

Function CleanKarakter(Data As Variant) As String

Dim lng As Integer, rest As String

lng = Len(Data)

For i = 1 To lng

If Asc(Mid(Data, i, 1)) >= 65 And Asc(Mid(Data, i, 1)) <= 90 Then

rest = rest & Mid(Data, i, 1)

```
ElseIf Asc(Mid(Data, i, 1)) >= 97 And Asc(Mid(Data, i, 1)) <= 122 Then
    rest = rest & Mid(Data, i, 1)
ElseIf Mid(Data, i, 1) >= 0 And Mid(Data, i, 1) <= 9 Then
    rest = rest & Mid(Data, i, 1)
End If
Next i
CleanKarakter = rest
End Function
```

190. Memisahkan Kalimat Menjadi Huruf

Sub Pisah_Kalimat()

```
Baris = 4
For a = 4 To 23
    Kata = Replace(Cells(Baris, 4), " ", "")
    Pjg = Len(Kata)
    Kolom = 5
    For i = 1 To Pjg
        b = Mid(Kata, i, 1)
        Cells(Baris, Kolom) = b
        Kolom = Kolom + 1
    Next
```

```
Baris = Baris + 1
Next
End Sub
```

191.Memisahkan Karakter

Option Explicit

```
Private Sub CommandButton1_Click()
```

```
Dim fullname As String, commaposition As Integer, i As Integer
```

```
For i = 2 To 7
```

```
    fullname = Cells(i, 1).Value
```

```
    commaposition = InStr(fullname, ",")
```

```
Cells(i, 2).Value = Mid(fullname, commaposition + 2)
```

```
Next i
```

```
End Sub
```

192.Mengabungkan tex cell selection

```
Sub Gabung_Text_selection()
```

```
    myCol = Selection.Columns.Count
```

```
For i = 1 To myCol
ActiveCell = ActiveCell.Offset(0, 0) & ActiveCell.Offset(0, i)
ActiveCell.Offset(0, i) = ""
Next i
End Sub
```

193.Text in Header

Sub customHeader()

```
Dim myText As String
myText = InputBox("Enter your text here", "Enter Text")
With ActiveSheet.PageSetup
.LeftHeader = ""
.CenterHeader = myText
.RightHeader = ""
.LeftFooter = ""
.CenterFooter = ""
.RightFooter = ""
End With
End Sub
```

194. Menandai text atau bukan angka

Sub Tandai_textCells()

```
Dim cl As Range
For Each cl In ActiveSheet.UsedRange
If Not Application.CheckSpelling(word:=cl.Text) Then
cl.Interior.Color = vbRed
End If
Next cl
End Sub
```

195. Tulisan Alfabet dimulai dari active cell

Sub Alfabet()

```
Dim iChar As Integer
For iChar = 0 To 25
ActiveCell.Offset(iChar, 0) = Chr(65 + iChar)
'or 95 for lowercase
Next
End Sub
```

196. Tulisan Berkedap kedip

Sub berkedip()

Dim RunWhen As Double

With ThisWorkbook.Worksheets("depan").Range("c2").Font

If .ColorIndex = 5 Then ' Warna biru

.ColorIndex = 2 ' Warna putih

Else

If .ColorIndex = 2 Then ' Warna hijau

.ColorIndex = 3 ' Warna merah

Else

.ColorIndex = 5 ' Warna biru

End If

End If

End With

RunWhen = Now + TimeSerial(0, 0, 1)

Application.OnTime RunWhen, "" & ThisWorkbook.Name & "!Berkedip", , True

End Sub

Sub Berhenti()

On Error Resume Next

ThisWorkbook.Worksheets("Menu").Range("V6").Font.ColorIndex = xlColorIndexAutomatic

Application.OnTime RunWhen, "" & ThisWorkbook.Name & "!Berkedip", , False

End Sub

BAB XXI

MsgBox

197. Menolak Input selain angka

```
Sub InputBox ()
```

```
Dim cellValue As Variant
```

```
reShowInputBox:
```

```
cellValue = Application.InputBox("Enter value to go in A3")
```

```
If cellValue = False Then
```

```
Beep
```

```
Exit Sub
```

```
ElseIf cellValue = "" Then
```

```
Beep
```

```
GoTo reShowInputBox
```

```
Else
```

```
ActiveSheet.Range("A3").Value = cellValue
```

```
End If
```

End Sub

198. Pesan MsgBox Menolak input selain angka

Sub nomor()

Dim userResponse As Variant

userResponse = _

Application.InputBox(Prompt:="Ketik nomor", _

Type:=1)

If userResponse = "False" Then Exit Sub

MsgBox "Nomor yang dimasukkan adalah " & Val(userResponse)

End Sub

199. Sebuah pesan dibuat dengan 3 baris kalimat

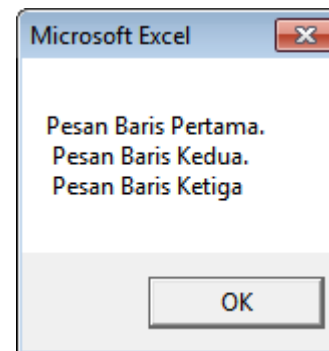
Sub dalam_tiga_kalimat()

MsgBox "Pesan Baris Pertama." & _

Chr(13) & "Pesan Baris Kedua." & _

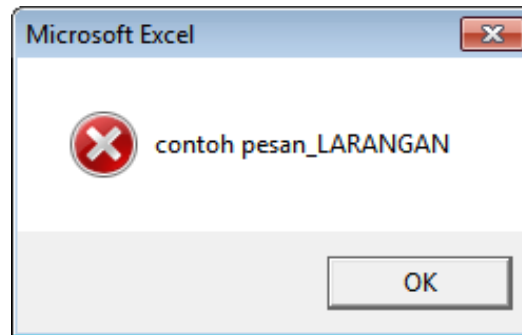
Chr(13) & "Pesan Baris Ketiga"

End Sub



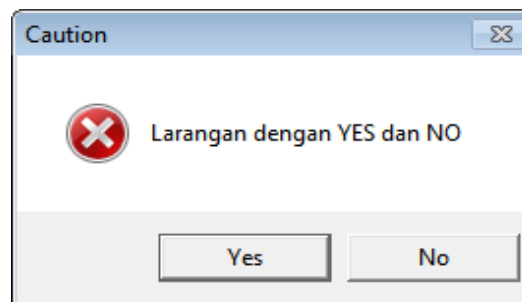
Sub message1()

```
MsgBox "contoh pesan_LARANGAN", vbCritical  
End Sub
```



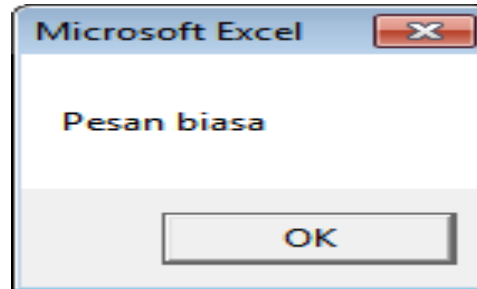
Sub message2()

```
YesNo = MsgBox(" Larangan dengan YES dan NO", vbYesNo + vbCritical, "Caution")  
End Sub
```



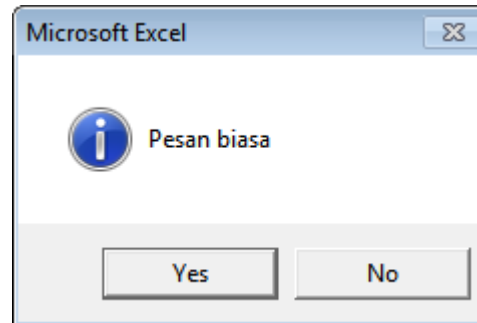
Sub message3()

MsgBox "Pesan biasa"
End Sub



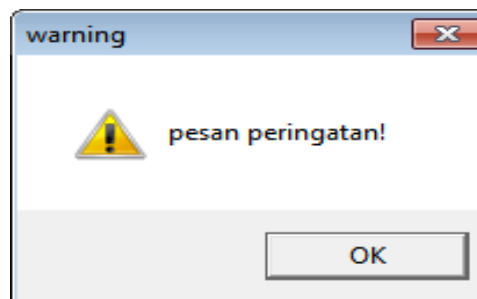
Sub message4()

MsgBox "Pesan biasa", vbYesNo + vbInformation
End Sub



Sub message5()

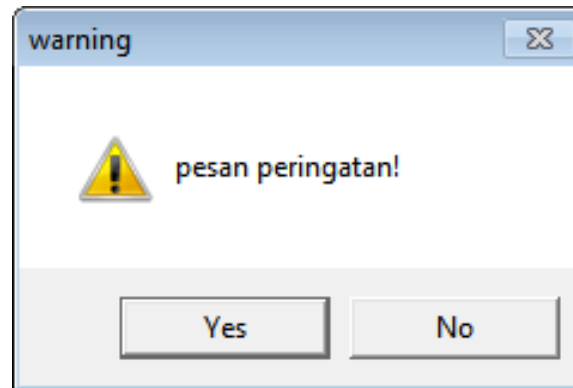
MsgBox "pesan peringatan! ", vbExclamation, "warning"



```
Sub message6()
```

```
MsgBox "pesan peringatan! ", vbYesNo + vbExclamation, "warning"
```

```
End Sub
```



199. Sebuah pesan Hyperlink

Jika ya menuju ke form1 dan bila tidak menuju ke form2

```
Private Sub CommandButton1_Click()
```

```
Dim iResponse As Integer
```

```
iResponse = MsgBox("Pilih OK untuk menampilkan User Form 1." & _  
Chr(13) & "Pilih Cancel untuk menampilkan User Form 2.", vbOKCancel)
```

```
If iResponse = vbCancel Then
```

```
Unload Me
```

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```
Application.Visible = False
UserForm2.Show
Application.Visible = True
End If
If iResponse = vbOK Then
Unload Me
Application.Visible = False
UserForm1.Show
Application.Visible = True
End If
End Sub
```

200. Sebuah pesan perintah

Sebuah pesan perintah silahkan ditulis di cell (1,1)
cell (1,1) artinya dibaris 1 kolom 1 atau Range A1

Sub Ketiklah ()

```
Dim userMsg As String
userMsg = InputBox("What is your message?", "Message Entry Form", "Enter
```

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```
your message here", 500, 700)
Cells(1,1).Value=userMsg
End Sub
```

201. Sebuah pesan peringatan

Sebuah pesan berisi peringatan “ Bila TextBox1.Text belum terisi maka ada peringatan “Data masih kosong” dan jika TextBox1.Text bernilai 1 akan menuju ke sheet1 jika TextBox1.Text bernilai 2 akan menuju ke sheet2

Sub peringatan()

'hyperlink kesheets tertentu dengan textbox di userForm

```
If TextBox1.Text = "" Then '1
MsgBox ("Data masih kosong")
ElseIf TextBox1.Text = 1 Then
Sheet1.Select
ElseIf TextBox1.Text = 2 Then
Sheet2.Select
End If
End Sub
```

Sub MsgExample3()

```
If MsgBox("Select OK to Continue") = vbCancel Then End  
'Statement to execute if OK selected  
End Sub
```

Sub IndentExample()

```
MsgBox "This is the first line." & _  
Chr(13) & Chr(9) & "This is indented." & _  
Chr(13) & Chr(9) & "This is also indented"  
End Sub
```

202. Sebuah pesan menggunakan fungsi if

Sebuah pesan pilihan bila ya akan dilaksanakan bila tidak berate tidak ada yang dilaksanakan

Sub MsgExample2()

```
Dim iResponse As Integer  
iResponse = MsgBox("Select OK or Cancel", vbOKCancel)  
If iResponse = vbCancel Then
```

```
MsgBox "You selected Cancel"
```

```
End If
```

```
If iResponse = vbOK Then
```

```
MsgBox "You selected OK"
```

```
End If
```

```
End Sub
```

BAB XXII

Date & Time

203. Meletakkan tanggal di range A1

```
Sub tanggal()
```

```
Range("A1") = date
```

```
End Sub
```

204. Meletakkan tanggal di range A1 sebelum file ditutup

```
Private Sub Workbook_BeforeSave(ByVal SaveAsUI As Boolean, Cancel As Boolean)
```

```
    Range("A1") = Now
```

```
End Sub
```

205. Menghabiskan sisa waktu yg ditentukan

Sub timer()

```
Application.Wait Now + TimeValue("00:00:01")  
MsgBox ("Waktu habis")  
End Sub
```

206. Menulis Jam berurutan

Sub menit ()

```
Dim i As Integer  
For i = 1 To 24  
ActiveCell.FormulaR1C1 = i & ":00"  
ActiveCell.NumberFormat = "[$-409]h:mm AM/PM;@"  
ActiveCell.Offset(RowOffset:=1, ColumnOffset:=0).Select  
Next i  
End Sub
```

BAB XXIII

Nilai Min dan Max

207. Menandai Nilai Max value in the range

```
Sub highlightMaxValue()
```

```
Dim rng As Range
```

```
For Each rng In Selection
```

```
If rng = WorksheetFunction.Max(Selection) Then
```

```
rng.Style = "Good"
```

```
End If
```

```
Next rng
```

```
End Sub
```

208. Menandai Nilai Minimal value in the range

```
Sub highlightMaxValue()
```

```
Dim rng As Range
```

```
For Each rng In Selection
```

```
If rng = WorksheetFunction.Max(Selection) Then
```

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```
rng.Style = "Good"  
End If  
Next rng  
End Sub
```

209. Menandai Nilai Max data baris

Sub Max_row()

```
Dim lastColumn, lCol As Integer  
Dim iCntr, jCntr, iMaxCol As Integer  
Dim vMax  
For iCntr = 5 To 10  
    vMax = 0  
    iMaxCol = 2  
    'Finding last row of current row  
    With ActiveSheet  
        lastColumn = .Cells(iCntr, .Columns.Count).End(xlToLeft).Column  
    End With  
    lCol = lastColumn  
    Range(Cells(iCntr, 2), Cells(iCntr, lCol)).Font.Bold = False  
    For jCntr = 2 To lCol  
        If vMax < Cells(iCntr, jCntr) Then
```

```
        vMax = Cells(iCntr, jCntr)
        iMaxCol = jCntr
    End If
Next
    Cells(iCntr, iMaxCol).Font.Bold = True
Next
End Sub
```

210. date In Header

```
    Sub dateInHeader()
    With ActiveSheet.PageSetup
    .LeftHeader = ""
    .CenterHeader = "&D"
    .RightHeader = ""
    .LeftFooter = ""
    .CenterFooter = ""
    .RightFooter = ""
    End With
    ActiveWindow.View = xlNormalView
    End Sub
```

211.Highlight negative numbers

```
Sub highlightNegativeNumbers()  
Dim Rng As Range  
For Each Rng In Selection  
If WorksheetFunction.IsNumber(Rng) Then  
If Rng.Value < 0 Then  
Rng.Font.Color= -16776961  
End If  
End If  
Next  
End Sub
```

212..Remove decimals from numbers

```
Sub removeDecimals()  
Dim lnumber As Double  
Dim lResult As Long  
Dim rng As Range  
For Each rng In Selection  
rng.Value= Int(rng)  
rng.NumberFormat= "0"  
Next rng  
End Sub
```

BAB XXIV

Convert

213. Convert to Upper

```
Private Sub CommandButton1_Click()
```

```
Dim Rng As Range  
For Each Rng In Selection  
Rng = UCase(Rng)  
Next Rng  
Unload Me  
End Sub
```

214. Convert to LOWER

```
Private Sub CommandButton2_Click()
```

```
Dim Rng As Range  
For Each Rng In Selection  
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```

```
Rng = LCase(Rng)
Next Rng
Unload Me
End Sub
```

215.Convert to PROPER

```
Private Sub CommandButton3_Click()
```

```
Dim Rng As Range
For Each Rng In Selection
If WorksheetFunction.IsText(Rng) Then
Rng.Value = WorksheetFunction.Proper(Rng.Value)
End If
Next
Unload Me
End Sub
```

216.Convert All Formulas into Values

```
Sub ConvertToValues()
```

```
With ActiveSheet.UsedRange
.Value = .Value
```

End With
End Sub

217.Convert All Formulas Into Values

Mengubah semua cell berformula formula /rumus ke format value /isi

Sub ConvertToValues()

```
Dim MyRange As Range
```

```
Dim MyCell As Range
```

```
Select Case MsgBox("You Can't Undo This Action. " & "Save Workbook First?",  
vbYesNoCancel, "Alert")
```

```
Case Is = vbYes
```

```
ThisWorkbook.Save
```

```
Case Is = vbCancel
```

```
Exit Sub
```

```
End Select
```

```
Set MyRange = Selection
```

```
For Each MyCell In MyRange
```

```
If MyCell.HasFormula Then
```

```
MyCell.Formula = MyCell.Value
```

```
End If
```



```
Next MyCell  
End Sub
```

218.Menerjemahkan no kolom ke no Hurup

Sub Approach1()

```
Dim colLetters As String  
Dim N As Integer  
N = Val(InputBox("enter a column number"))  
If N = 0 Then Exit Sub  
With Worksheets(1).Columns(N)  
colLetters = Left(.Address(False, False), _  
InStr(.Address(False, False), ":") - 1)  
End With  
MsgBox colLetters  
End Sub
```

219.Convert Zero to Null

Mengubah 0 menjadi Kosong

Sub replaceBlankWithZero()

```
Dim rngAs Range
```

```
Selection.Value= Selection.Value
For Each rngIn Selection
If rng= "" Or rng= " " Then
rng.Value= "0"
Else
End If
Next rng
End Sub
```

220.Konversi Upper Tex selain cell berformula

```
Sub ChangeCase()
Dim Rng As Range
For Each Rng In Selection.Cells
If Rng.HasFormula = False Then
Rng.Value = UCase(Rng.Value)
End If
Next Rng
End Sub
```

221.Convert date into year (Tanggal ke Tahun)

```
Sub date2year()  
Dim tempCell As Range  
Selection.Value = Selection.Value  
For Each tempCell In Selection  
If IsDate(tempCell) = True Then  
With tempCell  
.Value = Year(tempCell)  
.NumberFormat = "0"  
End With  
End If  
Next tempCell  
End Sub
```

222. Menolak Data Duplikat pada Texbox

```
Private Sub TextBox2_Exit(ByVal Cancel As MSForms.ReturnBoolean)  
If Application.CountIf(Range("C:C"), TextBox2) > 0 Then  
MsgBox "Nama Barang Sudah Ada"  
End If  
End Sub
```

223. Mengatur jumlah dan halaman Print out

```
Private Sub CommandButton1_Click()
```

```
Dim awal, Akhir, Jumlah As Integer
```

```
awal = TextBox1.Value
```

```
Akhir = TextBox2.Value
```

```
Jumlah = TextBox3.Value
```

```
Sheets("laporan").PrintOut from:=awal, To:=Akhir, Copies:=Jumlah
```

```
End If
```

```
End Sub
```

BAB XXV

Login & Disable

224. Disable input data ganda pada textbox

```
Private Sub TextBox2_Exit(ByVal Cancel As MSForms.ReturnBoolean)
If Application.CountIf(Range("C:C"), TextBox2) > 0 Then
MsgBox "Nama Barang Sudah Ada"
End If
End Sub
Option Explicit
```

225. Disable mouse klik kanan

```
Private Sub Worksheet_BeforeRightClick(ByVal Target As Excel.Range, Cancel As Boolean)
```

```
Cancel = True
```

```
End Sub
```

226.Melarang Copy Paste

Skrip disimpan pada Wookbook

```
Private Sub workbook_sheetbeforerightclick(ByVal sh As Object, ByVal target As Range, cancel As Boolean)
```

```
cancel = True
```

```
MsgBox "dilarang klik kanan"
```

```
End Sub
```

227.Disable tanda X (close pada Userform)

Melarang Menutup userform menggunakan tombol X

Contoh1

```
Private Sub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)
```

```
Cancel = True
```

```
End Sub
```

Contoh2

```
Private Sub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)
```

```
If CloseMode = vbFormControlMenu Then Cancel = True
```

```
End Sub
```

Contoh3

```
Private Sub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)
```

```
If CloseMode = 0 Then Cancel = True
```

```
End Sub
```

Contoh4

```
Private Sub UserForm_QueryClose(Cancel As Integer, CloseMode As Integer)
```

```
If CloseMode = 0 Then
```

```
Cancel = True
```

```
MsgBox "Untuk menutup Form silakan klik tombol exit", vbCritical
```

```
End If
```

End Sub

228. Form Login

```
Private Sub cmdLogin_Click()
```

```
Dim strUser, strPass As String
```

```
strUser = "admin"
```

```
strPass = "123456"
```

```
If txtUser.Value = "" Then
```

```
MsgBox "Silahkan Masukkan Nama User", _  
vbExclamation + vbOKOnly, "Nama User tidak boleh kosong"
```

```
txtUser.SetFocus
```

```
Exit Sub
```

```
ElseIf txtPass.Value = "" Then
```

```
MsgBox "Silahkan Masukkan Kata Sandi", _  
vbExclamation + vbOKOnly, "Kata Sandi tidak boleh kosong"
```

```
txtPass.SetFocus
```

```
Exit Sub
```

```
ElseIf txtUser.Value <> strUser Then
```

```
MsgBox "Nama User '" & txtUser & "' tidak terdaftar", _  
vbCritical + vbOKOnly, "Terjadi kesalahan"
```

```
txtUser.SetFocus
```

```
Exit Sub
```

```
ElseIf txtPass.Value <> strPass Then
```

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```
MsgBox "Kata sandi Salah", _  
vbCritical + vbOKOnly, "Terjadi kesalahan"  
txtPass.SetFocus  
Exit Sub  
End If  
MsgBox "Selamat Anda berhasil Login", _  
vbInformation + vbOKOnly, "Login berhasil!"  
Me.Hide  
Sheets(1).Range("A1").Activate  
End Sub
```

229. Membatasi Jumlah Login pada userform

```
Private Sub Workbook_Open()
```

```
Dim x As Integer, Password As String
```

```
Log:
```

```
Password = InputBox("Silahkan masukkan kata kunci Anda" & vbNewLine & _  
"(case sensitive)", "LOGIN")
```

```
If Password <> "123" Then
```

```
x = x + 1
```

```
If x = 3 Then
```

```
MsgBox "Maaf." & vbCr & _
```

```
"Anda sudah menggunakan semua kesempatan yang disediakan" & vbCr & _
```

```
"Dokumen untuk sementara akan ditutup"  
ThisWorkbook.Close savechanges:=False  
Else  
MsgBox "Password yang Anda masukkan salah." & vbCr & _  
"Silahkan coba lagi." & vbCr & vbCr & _  
"Kesempatan gagal tinggal " & 3 - x & "x"  
GoTo Log:  
End If  
End If  
End Sub
```

BAB XXVI

Formula VBA

FORMULA ARRAY

[Cell awal: Cell akhir]. Formula ="=formula"

Misalnya

[i2:i8].Formula = "=SUM(A2:D2)"

230. Formula SUM VBA

```
Sub formula_sum ()
```

```
[e2:e10].Formula = "=SUM(A2:D2)"
```

```
[f2:f8].Formula = "=SUM(A2:D2)"
```

```
[g2:g5].Formula = "=SUM(A2:D2)"
```

```
Application.DisplayFormulaBar = False
```

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End sub

Sub Formula_Sum()

Dim i As Long

For i = 0 To 100

 ActiveCell.Offset(i, 0).Formula = WorksheetFunction.Sum(i, 1)

Next i

End Sub

231. Formula Average VBA

Sub formula_Average ()

[f2:f8].Formula = "=Average(A2:D2)"

[j2:j8].Formula = "=AVERAGE(A2:f2)"

Application.DisplayFormulaBar = False

End sub

Sub Average_range()

Set myRange = Worksheets(1).Range("A1:A10")

MsgBox Application.Average(myRange)

End Sub

232. Formula CONCATENATE VBA

```
Sub formula_Concatenate ()
```

```
[l10:l12].Formula = "=CONCATENATE(A10, B10, C10, D10)"
```

```
Application.DisplayFormulaBar = False
```

```
End Sub
```

233. Formula sumif VBA

```
Sub formula_sumif ()
```

```
[e4:e10].formula=SUMIF($E$4:$E$10,E4,$H$4:$H$10)
```

```
[d4:d10].formula=SUMIF(A4:A10,E4,B4:B10)
```

```
Application.DisplayFormulaBar = False
```

```
End sub
```

contoh

```
Sub Formula ()
```

```
[i2:i8].Formula = "=SUM(A2:D2)"
```

```
[k2:k8].Formula = "=max(A2:D2)"
```

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```
[I2:I8].Formula = "=min(A2:D2)"  
Application.DisplayFormulaBar = False  
End sub
```

```
Sub Formula_MATCH ()
```

```
=MATCH(J13,L13:L16,1)
```

```
End sub
```

234. Formula CountIf dan CountA VBA

```
Sub countifformula ()
```

```
Range("J4") = Application.CountIf(Range("E6:E56"), "L")
```

```
Range("L4") = Application.CountIf(Range("E6:E56"), "P")
```

```
Range("K4") = Application.CountA(Range("d6:d56"))
```

```
end sub
```

235. Formula Vlookup VBA

```
Sub Vlookup_1()
```

```
[J6:J26].Formula = "=VLOOKUP(I6,A6:G26,2)"
```

```
[K6:K26].Formula = "=VLOOKUP(I6,A6:G26,3)"  
[L6:L26].Formula = "=VLOOKUP(I6,A6:G26,4)"  
[M6:M26].Formula = "=VLOOKUP(I6,A6:G26,5)"  
[N6:N26].Formula = "=VLOOKUP(I6,A6:G26,6)"  
[O6:O26].Formula = "=VLOOKUP(I6,A6:G26,7)"  
End Sub
```

236. Formula Penjumlahan variable

Sub FillFormulas()

```
Dim myRng As Range  
Dim lastRw As Long  
lastRw = Worksheets("Sheet1").Range("C1").End(xlDown).Row  
Set myRng = Worksheets("Sheet1").Range("D1")  
myRng.Formula = "=SUM(A1:C1)"  
myRng.AutoFill Destination:=Worksheets("Sheet1") _  
.Range("D1:D" & lastRw&)  
End Sub
```

237. Formula Vlookup

Sub Vlookup_3()

Dim Arr As Variant

Dim i As Integer, j As Integer

Arr = Range("A5:G30").Value

j = 6

For i = LBound(Arr) To UBound(Arr)

For j = 6 To Range("I5").End(xlDown).Row

If Cells(j, "I") = Arr(i, 1) Then

Cells(j, 10) = Arr(i, 2)

Cells(j, 11) = Arr(i, 3)

Cells(j, 12) = Arr(i, 4)

Cells(j, 13) = Arr(i, 5)

Cells(j, 14) = Arr(i, 6)

Cells(j, 15) = Arr(i, 7)

End If

Next j

Next i

End Sub

238. Formula Multy Code VBA

Sub Sumif_multy_code()

```
Dim Sum As Integer, i As Integer
Dim F As Range
Dim S As String
S = Range("E6").Value
For i = 1 To Len(S)
Set F = Range("A6:A20").Find(Mid(S, i, 1))
If Not F Is Nothing Then
Sum = Sum + F.Offset(0, 1).Value
End If
Next i
Range("F6").Value = Sum
End Sub
```

239. Formula Multy fungsion

Sub Multy_formula ()

```
Sheet1.Range("G6").FormulaArray = "=SUMIF(B5:B50,G4,D5:D50)"
Sheet1.Range("G5").FormulaArray = "=SUMIF(B5:B50,G4,C5:C50)"
Sheet1.Range("G7").FormulaArray = "=g6-g5"
```

```

Sheet1.Range("G3").FormulaArray = "=COUNTIF(B5:E50,G4)"
Sheet1.Range("G9").FormulaArray = "=SUM(D5:D50)"
Sheet1.Range("G10").FormulaArray = "=SUM(c5:c50)"
Sheet1.Range("G11").FormulaArray = "=G9-G10"
Sheet1.Range("G4").FormulaArray = "=vLOOKUP(E4,k4:l13,2)"
End Sub

```

240. Terbilang Macros

Terbilang Macro digunakan dalam aplikasi kwitansi otomatis akan berfungsi di computer mana saja file excel dijalankan berfungsi mengubah angka ke hurup
Pastekan pada Modul :

```

Function Terbilang(n As Long) As String 'max 2.147.483.647
Dim satuan As Variant, Minus As Boolean
On Error GoTo terbilang_error
satuan = Array("", "Satu", "Dua", "Tiga", "Empat", "Lima", "Enam", "Tujuh", "Delapan",
"Sembilan", "Sepuluh", "Sebelas")
If n < 0 Then
Minus = True
n = n * -1
End If
Select Case n
Case 0 To 11

```

Terbilang = " " + satuan(Fix(n))

Case 12 To 19

Terbilang = Terbilang(n Mod 10) + " Belas"

Case 20 To 99

Terbilang = Terbilang(Fix(n / 10)) + " Puluh" + Terbilang(n Mod 10)

Case 100 To 199

Terbilang = " Seratus" + Terbilang(n - 100)

Case 200 To 999

Terbilang = Terbilang(Fix(n / 100)) + " Ratus" + Terbilang(n Mod 100)

Case 1000 To 1999

Terbilang = " Seribu" + Terbilang(n - 1000)

Case 2000 To 999999

Terbilang = Terbilang(Fix(n / 1000)) + " Ribu" + Terbilang(n Mod 1000)

Case 1000000 To 999999999

Terbilang = Terbilang(Fix(n / 1000000)) + " Juta" + Terbilang(n Mod 1000000)

Case Else

Terbilang = Terbilang(Fix(n / 1000000000)) + " Milyar" + Terbilang(n Mod 1000000000)

End Select

If Minus = True Then

Terbilang = "Minus" + Terbilang

End If

Exit Function

terbilang_error:

MsgBox Err.Description, vbCritical, "^_^Terbilang Error"

End Function

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BAB XXVII

Hardis , Expired & Komputer

241.Mengatur Tanggal di Komputer anda

Sub AturTanggal()

On Error Resume Next

Shell "RunDll32.exe shell32.dll,Control_RunDLL timedate.cpl", vbNormalFocus

ShowControlPane4 = Err.Number = 0

End Sub

242.Menampilkan Control Panel Komputer

Sub Show_panel()

On Error Resume Next

Shell "RunDll32.exe shell32.dll, Control_RunDLL", vbNormalFocus

ShowControlPane4 = Err.Number = 0

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End Sub

243.Open Calculator

```
Sub OpenCalculator()
```

```
Application.ActivateMicrosoftApp Index:=0
```

```
End Sub
```

244.File Excel tidak dapat dipindahkan Ke Komputer Lain

Pastekan No Seri Komputer yang akan menerima file ini !

```
Private Sub Workbook_Open()
```

```
Dim oFSO As Object
```

```
Dim drive As Object
```

```
Set oFSO = CreateObject("Scripting.FileSystemObject")
```

```
Set drive = oFSO.GetDrive("C:\")
```

```
If drive.SerialNumber <> 408299609 Then Application.Run "Killy"
```

```
Set oFSO = Nothing
```

```
Set drive = Nothing  
End Sub
```

Pastekan Kode di module

```
Sub Hapus_file_bila_sesuai_seri()
```

```
MsgBox "Illegal Copy ", vbExclamation + vbMsgBoxRight  
Application.DisplayAlerts = False  
ThisWorkbook.ChangeFileAccess xlReadOnly  
Kill ThisWorkbook.FullName  
ThisWorkbook.Close False  
Application.DisplayAlerts = False  
End Sub
```

245. Menampilkan Nomor Seri Hardisk di msg

```
Sub GetDrive_Seria_Inumber()
```

```
Dim Pesan As Integer  
Dim Pesannya As String  
Dim JudulPesan As String
```

```
Pesannya =  
CreateObject("Scripting.FileSystemObject").GetDrive("C:\").SerialNumber  
JudulPesan = "Nomor Seri Hardisk"  
    Pesan = MsgBox("Nomor Seri: " & Pesannya, vbInformation, JudulPesan)  
End Sub
```

246. Menampilkan Nomor Seri Hardisk di cell A1

Sub GetDrive_Seria_Inumber2()

```
Sheets("Sheet1").Range("b1").Value =  
CreateObject("Scripting.FileSystemObject").GetDrive("C:\").SerialNumber  
End Sub
```

247. Menampilkan Nomor Seri Hardisk di textbox

Private Sub CommandButton1_Click()

```
TextBox1.Value =  
CreateObject("Scripting.FileSystemObject").GetDrive("C:\").SerialNumber  
End Sub
```

248. Menghapus file otomatis pada waktu yang telah ditentukan

Option Explicit

Private Sub Workbook_Open()

Dim Edate As Date

Edate = Format("15/09/2017", "DD/MM/YYYY") ' Replace this with the date you want

If Date > Edate Then

MsgBox ("This worksheet was valid upto " & Format(Edate, "dd-mmm-yyyy") & " and will be closed")

With ThisWorkbook

.Saved = True

.ChangeFileAccess Mode:=xlReadOnly

Kill .FullName

.Close False

End With

ElseIf Edate - Date < 3 Then

MsgBox "Aplikasi ini Versi Demo! Silahkan Registrasi Ke asanaputu@gmail.com",
vbOKOnly, "Textbox1 Kosong"

End If

Worksheets("Sekolah").Select

Application.ExecuteExcel4Macro "show.toolbar(""Ribbon"" ,False)"

End Sub

249. Membatasi Jumlah Buka file excel

Membatasi Jumlah Buka file excel selebihnya tidak bias dibuka lagi

Private Sub Workbook_Open()

```
If Sheets("Sheet1").Range("A1").Value = "" Then  
Sheets("Sheet1").Range("A1").Value = 1  
ElseIf Sheets("Sheet1").Range("A1").Value = "50" Then  
MsgBox "Maaf masa trial sudah tidak berlaku " & vbCrLf & _  
vbOKOnly + vbCritical, "Tutorial Microsoft Excel"  
ThisWorkbook.Save  
ThisWorkbook.Close  
Exit Sub  
Else  
Sheets("Sheet1").Range("A1").Value = _  
Sheets("Sheet1").Range("A1").Value + 1  
MsgBox "Anda menyisakan jumlah buka " & 50 -  
Sheets("Sheet1").Range("A1").Value, _  
vbOKOnly + vbCritical, "Tutorial Microsoft Excel"  
End If  
End Sub
```

250. Pilihan Tanggal dalam beberapa format

Sub semua_tanggal ()

```
Cells (1, 1).Value = Now ()  
Cells (2, 1).Value = Format (Now, "s")  
Cells (3, 1).Value = Format (Now, "n")  
Cells (4, 1).Value = Format (Now, "h")  
Cells (5, 1).Value = Format (Now, "m")  
Cells (6, 1).Value = Format (Now, "mmm")  
Cells (7, 1).Value = Format (Now, "mmmm")  
Cells (8, 1).Value = Format (Now, "y")  
Cells (9, 1).Value = Format (Now, "yyyy")  
End Sub
```

DAFTAR PUSTAKA

1. Excel Indonesia User Group

https://mobile.facebook.com/groups/306495419415013?refid=18&_ft_=qid.6525597483353415169%3Amf_story_key.1790119677719239%3Atop_level_post_id.1790119677719239%3Atl_objid.1790119677719239%3Asrc.22&_tn_=C-R

2. Bantuan Macro/VBA Excel-Access-Power pivot (indonesia)

https://mobile.facebook.com/groups/714491125270202?refid=18&_ft_=qid.6525598600149176466%3Amf_story_key.1762480463804591%3Atop_level_post_id.1762480463804591%3Atl_objid.1762480463804591%3Asrc.22&_tn_=C-R

3. Excel VBA codes and Macros

https://mobile.facebook.com/groups/163491717053198?refid=18&_ft_=qid.6525598965177908238%3Amf_story_key.1617691338299888%3Atop_level_post_id.1617691338299888%3Atl_objid.1617691338299888%3Asrc.22&_tn_=C-R

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4.Excel Supports Grup

https://mobile.facebook.com/groups/1547364671986974?refid=18&_tn_=C-R

5.Excel Champs Blog

Excel Champs Blog - Learn Excel With Useful Tips & Tricks

<https://excelchamps.com/blog/>

TAMAT