

## FUNGSI PENCABANGAN DAN PERULANGAN

Kedua fungsi ini sangat banyak digunakan dalam proses pemrograman. Kita akan mencobanya dalam sebuah program non database.

Fungsi pencabangan dan perulangan yang sering digunakan antara lain:

**1. IF... Then**

```
IF <Kondisi> Then <Pernyataan>
```

**2. IF... Then...Else...**

```
IF <Kondisi1> Then <Pernyataan1> Else <Pernyataan2>
```

**3. IF... Then...Elseif**

```
If <Kondisi1> Then <Pernyataan1>  
Elseif <Kondisi2> Then  
    <Pernyataan2>  
Endif  
    <Pernyataan3>  
Endif
```

**4. IIF**

```
IIf (Grade= 'D', 'Her' ,IIf (Grade= 'A', 'Memuaskan', IIf(Grade= 'B', 'Baik','Cukup')) ) "
```

**5. For...Next**

```
For <Variabel> Step <Variabel>  
    <Pernyataan>  
Next <Variabel>
```

**6. Do While... Loop**

```
Do While <Kondisi>  
    <Pernyataan>  
Loop
```

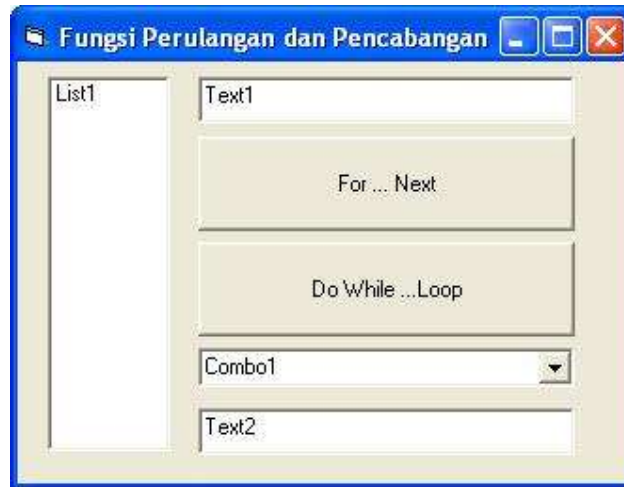
**7. While...End While**

```
While <Kondisi>  
    <Pernyataan>  
End While
```

**8. Do Until...Loop**

```
Do Until <Kondisi>  
    <Pernyataan>  
Loop
```

## Program Pertama



### Listing Program

```
Private Sub Command1_Click()  
List1.Clear  
For i = 1 To 5  
    List1.AddItem i  
Next i  
End Sub  
  
Private Sub Command2_Click()  
Combo1.Clear  
Dim a As Byte  
Do While a < 5  
    a = a + 1  
    Combo1.AddItem a  
Loop  
End Sub  
  
Private Sub List1_Click()  
If List1.ListIndex = 0 Then  
    Text1 = "Satu"  
ElseIf List1.ListIndex = 1 Then  
    Text1 = "Dua"  
ElseIf List1.ListIndex = 2 Then  
    Text1 = "Tiga"  
ElseIf List1.ListIndex = 3 Then  
    Text1 = "Empat"  
ElseIf List1.ListIndex = 4 Then  
    Text1 = "Lima"  
End If  
End Sub  
  
Private Sub Combo1_Click()  
Select Case Combo1.ListIndex  
    Case 0  
        Text2 = 1000  
    Case 1
```

```
Text2 = 2000
Case 2
Text2 = 3000
Case 3
Text2 = 4000
Case 4
Text2 = 5000
End Select
End Sub
```

### Program Huruf



### Listing Program

```
Private Sub option1_Click()
Label1.ForeColor = vbRed
End Sub

Private Sub option2_Click()
Label1.ForeColor = vbYellow
End Sub

Private Sub option3_Click()
Label1.ForeColor = vbBlue
End Sub

Private Sub option4_Click()
Label1.ForeColor = vbGreen
End Sub

Private Sub check1_Click()
If Check1.Value = vbChecked Then
Label1.FontBold = True
ElseIf Check1.Value = vbUnchecked Then
Label1.FontBold = False
End If
End Sub
```

```
Private Sub check2_Click()  
If Check2.Value = vbChecked Then  
    Label1.FontItalic = True  
ElseIf Check2.Value = vbUnchecked Then  
    Label1.FontItalic = False  
End If  
End Sub  
Private Sub check3_Click()  
If Check3.Value = vbChecked Then  
    Label1.FontSize = 20  
ElseIf Check3.Value = vbUnchecked Then  
    Label1.FontSize = 15  
End If  
End Sub  
  
Private Sub command1_Click()  
End  
End Sub
```

### Program Password



### Listing Program

```
Private Sub Command1_Click()  
Do While (True)  
If Text1 = "Nama Saya" And Text2 = "Rahasia" Then  
    pesan = MsgBox("Password Benar")  
    End  
Else  
    pesan = MsgBox("Password Salah.. ulangi lagi")  
    Text1.Text = ""  
    Text2.Text = ""  
    Text1.SetFocus  
    Exit Do  
End If  
Loop  
End Sub
```

## Program Jurusan



### Listing Program

```
Private Sub Command1_Click()
Text1 = ""
Text2 = ""
Text3 = ""
Text1.SetFocus
End Sub

Private Sub Command2_Click()
End
End Sub

Private Sub Form_Load()
Text3.Enabled = False
End Sub

Private Sub Text1_KeyPress(KeyAscii As Integer)
KeyAscii = Asc(UCase(Chr(KeyAscii)))
If KeyAscii = 13 Then Text2.SetFocus
End Sub

Private Sub Text2_KeyPress(KeyAscii As Integer)
KeyAscii = Asc(UCase(Chr(KeyAscii)))
If KeyAscii = 13 Then
    If Text2 <> "MI" And Text2 <> "KA" And Text2 <> "TK" Then
        MsgBox "Jurusan tidak terdaftar"
        Text2 = ""
        Text2.SetFocus
        Exit Sub
    End If
    If Text2 = "MI" Then Text3 = "MANAJEMEN INFORMATIKA"
    If Text2 = "KA" Then Text3 = "KOMPUTER AKUNTANSI"
    If Text2 = "TK" Then Text3 = "TEKNIK KOMPUTER"
    Command1.SetFocus
End If
End Sub
```

### Program Kalkulasi



### Listing Program

```
Private Sub Form_Load()  
Text3.Enabled = False  
End Sub  
  
Private Sub Command1_Click()  
Text3 = Val(Text1) + Val(Text2)  
End Sub  
  
Private Sub Command2_Click()  
Text3 = Text1 - Text2  
End Sub  
  
Private Sub Command3_Click()  
Text3 = Text1 / Text2  
End Sub  
  
Private Sub Command4_Click()  
Text3 = Text1 * Text2  
End Sub  
  
Private Sub Command5_Click()  
Text3 = Text1 ^ Text2  
End Sub  
  
Private Sub Command6_Click()  
End  
End Sub
```

## Program Gaji

Nama		Kode JB TN
Gol	Combo1	List1
Gaji Pokok		
Transport		
Tunj Jabatan		
Total Gaji		

Ulangi      Selesai

### Listing Program

```
Private Sub Form_Load()  
Dim i As Byte  
For i = 1 To 3  
    Combo1.AddItem CStr(i)  
Next  
For i = 1 To 4  
    List1.AddItem CStr(i)  
Next  
End Sub  
  
Private Sub Combo1_Click()  
Select Case Combo1.ListIndex  
    Case 0  
        Text2 = 100000  
        Text3 = 50000  
    Case 1  
        Text2 = 150000  
        Text3 = 75000  
    Case 2  
        Text2 = 200000  
        Text3 = 100000  
End Select  
End Sub  
  
Private Sub Command1_Click()  
Kosong  
Text1.SetFocus  
End Sub  
  
Private Sub Command2_Click()  
End  
End Sub  
  
Private Sub List1_Click()  
If List1.ListIndex = 0 Then  
    Text4 = 100000  
End If  
End Sub
```

```
ElseIf List1.ListIndex = 1 Then
    Text4 = 200000
ElseIf List1.ListIndex = 2 Then
    Text4 = 300000
ElseIf List1.ListIndex = 3 Then
    Text4 = 400000
End If
End Sub

Private Sub Text5_Click()
Text5 = Val(Text2.Text) + Val(Text3.Text) + Val(Text4.Text)
End Sub

Sub Kosong()
Dim CTL As Control
For Each CTL In Me
    If TypeName(CTL) = "TextBox" Or TypeName(CTL) = "ComboBox" Or
    TypeName(CTL) = "ListBox" Then
        CTL.Text = ""
    End If
Next
End Sub
```

### **Program Deret Angka**

Buatlah sebuah command dalam form, kemudian double click command tersebut lalu tulis kode program di bawah ini dan perhatikan hasilnya.

```
Private Sub Command1_Click()
For i = 1 To 10
    Print i
Next i

For i = 1 To 10
    Print i;
Next i
End Sub
```

