

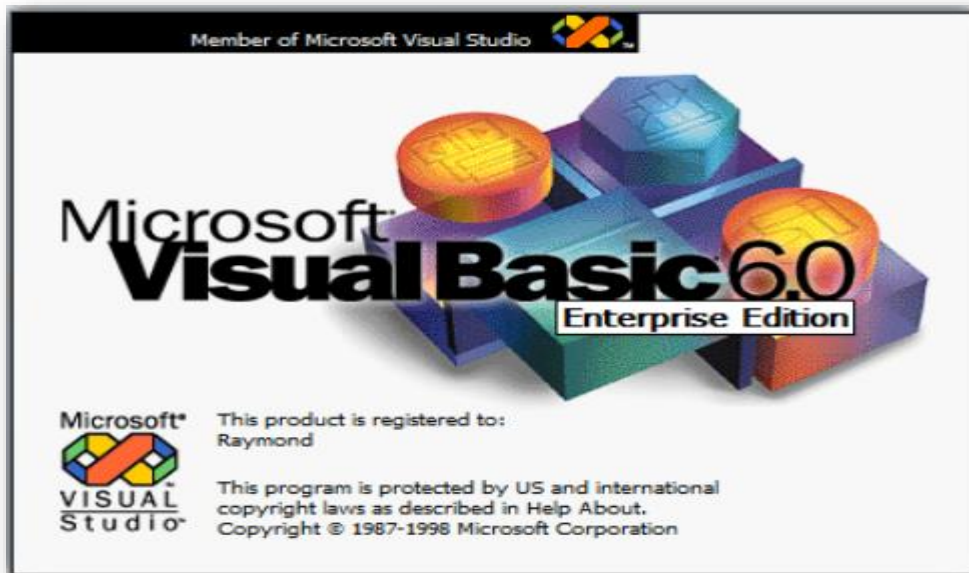


جامعة القادسية  
كلية التربية



## Lecture 14

# Visual Basic 6.0



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## Control Statements

### ١١. الجمل الشرطية (conditional statements):

هناك نوعين من الجمل الشرطية

١- جملة اذا (if statement)

٢- جملة الاختيار (select case)

### ١ - جملة اذا (if statement):

تستخدم مع if الشرطية عمليات المقارنة <, >, <=, >=, <>, =, and, or في جملة الشرط، ويوجد اربعة انواع من التراكيب الخاصة بعبارة if الشرطية.

### ١) التركيب البسيط If ..Then

الصيغة العامة هي:

**If** condition **then** statement

**Q1)** Write a program to enter the student's grade and then print the word pass if the student is successful.



الحل:  
التصميم:

الشفرة:

```
Dim x as integer
Private sub command1_click()
X= cint(text1.text)
If x >= 50 then text2.text= "pass"
End sub
```

(٢) التركيب If block  
ويأخذ الصيغة التالية:

```
If condition then
    Statements
End if
```

**Q2)** Write a program to enter the student's grade and then print the word pass with changing the font size if the student is successful.

```
Dim x as integer
Private sub command1_click()
X= cint(text1.text)
If x >= 50 then
text2.text= "pass"
text2.fontsize=18
end if
End sub
```

**٣) التركيب If.. Then.. Else**

ويأخذ الصيغة التالية:

**If condition then**

Statements

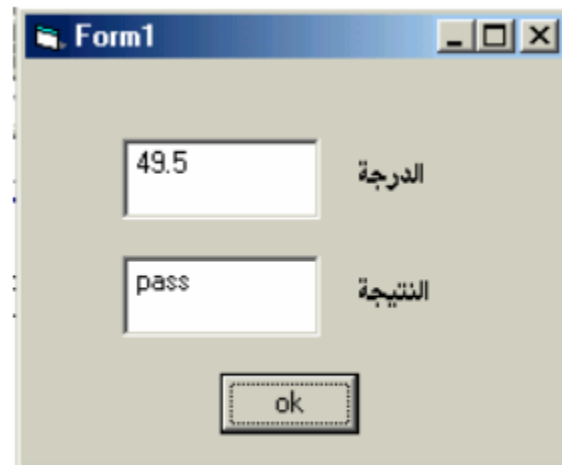
**Else**

Statements

**End if**

**Q3)** Write a program to enter a student's grade and then print the word successful if his grade is greater than or equal to 50 and print the word fail otherwise.

```
Dim x As Integer
Private Sub command1_click()
x = CInt(Text1.Text)
If x >= 50 Then
Text2.Text = "pass"
Else
Text2.Text = "fail"
End If
End Sub
```



٤) التركيب If.. then.. Elseif ..Else  
ويأخذ الصيغة التالية:

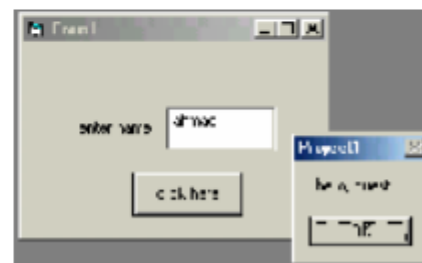
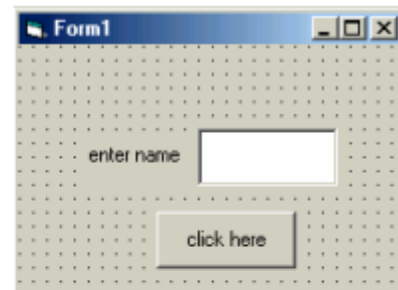
```

If condition then
    Statements
Elseif condition then
    Statements
Else
    Statements
End if
    
```

**Q)** Write a program to enter the user's name, then write a welcome message for him, the first by welcoming Muhammad .The second is good and the third is to welcome any other user as a guest.

```

Dim x As String
Private Sub command1_click()
x = text1.Text
If x = "Muhammad" Then
MsgBox "hello, Muhammad"
ElseIf x = "hasan" Then
MsgBox "hello,hasan"
Else
MsgBox "hello, guest"
End If
End Sub
    
```



**جملة If المتداخلة (nested if)**

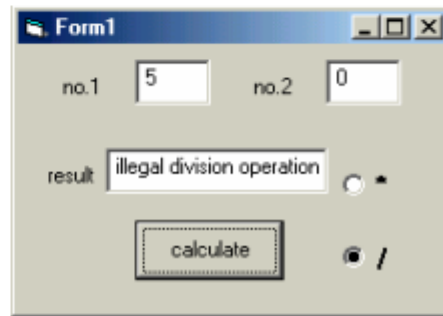
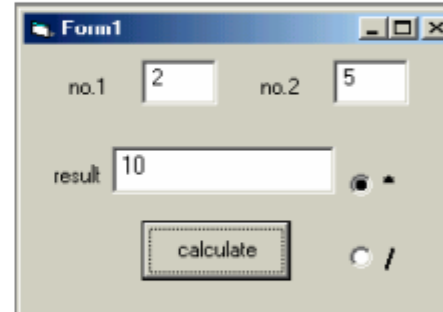
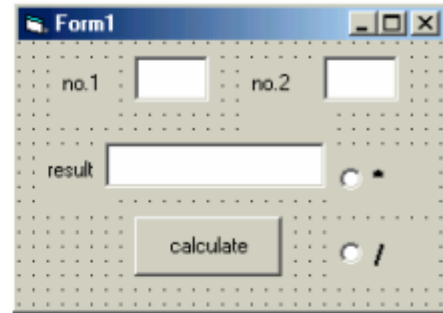
```
If condition then  
  If condition then  
    Statements  
  Else  
    Statements  
  Elseif  
Else  
  Statements  
End if
```

**Q)** Write a program to enter two numbers and then calculate multiplication and division using (button option) Displaying the phrase (operation division illegal) when the divisor is zero.

```
Dim a, b, c As Single  
Private Sub command1_click()  
a = Val(Text1.Text)  
b = Val(Text2.Text)  
If Option1.Value Then  
c = a * b  
Text3.Text = CStr(c)  
Else
```

```

If b <> 0 Then
Text3.Text = CStr(c)
Else
Text3.Text = "illegal division operation"
End If
End If
End Sub
    
```



❖ اختبار ذاتي :

**Write program to calculate :**

- $y = x^2 + x - 5$       if  $n=1$
- $y = x^3 + x^2$         if  $n=2$
- $y = x^4 - 2 * x$         if  $n=3$
- other  $y=10$

**Using IF-EISE**

**Note : Enter the value of n and x using inputbox**

## 5- NESTED IF

### الصيغة العامة

```
IF condition THEN
    IF condition THEN
        IF condition THEN
            Statement (s)
        Else
            Statement (s)
    ENDIF
ENDIF
ENDIF
ENDIF
```

Example:

```
Dim grade As Integer
grade = InputBox("Enter Grade", Grade)
```

```
If grade >= 90 And grade <= 100 Then
text1 = "Excelent"
Elseif grade >= 80 Then
text1 = "Very Good"
Elseif grade >= 70 Then
text1 = "Good"
Elseif grade >= 60 Then
text1 = "Fair"
Elseif grade >= 50 Then
text1 = "Pass"
Else
text1 = "Fail"
End If
MsgBox text1, , "Evaluation"
```

❖ اختبار ذاتي :

في المثال السابق لو ادخلنا قيمة اكبر من 100 سوف تظهر نتيجة خاطئة . قوم باعادة حل المثال بحيث تكون الناتج صحيحة



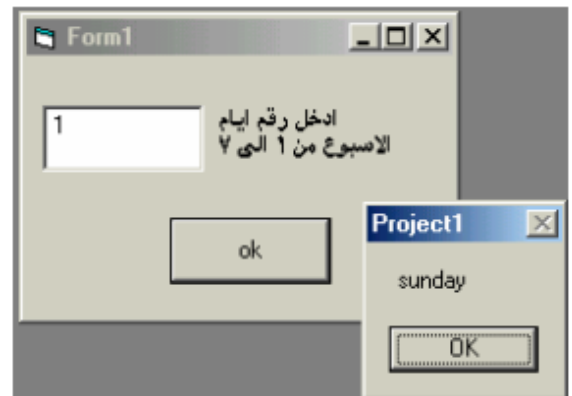
## ٢- جملة الاختيار Select Statement

نستخدمها عندما نريد ان ننفذ مجموعة من الجمل والتي تعتمد على قيمة متغير واحد وتنفذ بالشكل التالي:

```
Select case variables
  Case value1
    Statements
  Case value2
    Statements
  .
  .
  .
  Case else
    Statements
End select
```

**Q) Design a form to print the names of the days of the week when entering its number.**

```
Dim x As Integer
Private Sub Command1_Click()
x = CInt(Text1.Text)
Select Case x
Case 1
MsgBox ("Sunday")
Case 2
MsgBox ("Monday")
Case 3
MsgBox ("Tuesday")
```



```
Case 4
MsgBox ("Thursday")
Case 5
MsgBox ("Wednesday")
Case 6
MsgBox ("Friday")
Case 7
MsgBox ("Saturday")
End Select
End Sub
```

**Example1:**

**Write program to calculate :**

$y = x^2 + x - 5$       if  $n=1$   
 $y = x^3 + x^2$       if  $n=2$   
 $y = x^4 - 2 * x$       if  $n=3$   
other  $y=10$

**use SELECT CASE**

**Note: enter the value of n and x using inputbox and the output of y through textbox**

```
Private Sub Command1_Click()
    Dim x, y, n As Integer
    b = InputBox("enter n"):      n = Val(b)
    c = InputBox("enter x"):      x = Val(c)
```

**Select Case n**

**Case 1:  $y = x^2 + x - 5$**

**Case 2:  $y = x^3 + x^2$**

**Case 3:  $y = x^4 - 2 * x$**

**Case Else:  $y = 10$**

**End Select**

**Text1.Text = y**

**End Sub**