**Chapter Four**

**H.W (1):-** Write the project in visual basic consists of two forms, the first form to find the sum of three degrees and the average of them for one student, the second form find the final result of student(i.e. succeeded or failed) depend on the average of student.

**Sol:-**

 بما ان المعدل سوف يتم حسابه في الـ form1 وسوف نحتاجه أيضا في أل form2لكي نجد النتيجة النهائية للطالب لذا يجب أن يتم تعريف المعدل في قسم general section لـbase module لكي يكون معروف في الـ form2 أيضا.

### To add the base module, follows this steps

1- Go to the project menu and then click add module

2- Click open

Then define the **av**(average ) as **global** .as shown below

**General**

Base module

**Declearation**

# Global av as double

Now design the **user interface of form1**, draw **three labels** and **three textbox** and **three commands** ,the **first command** to find the **sum and average**, and the **second command** to **move to the form2 to find the final result of students** and the **third command** to **exit from the program** as shown below.

Form1

Exit

Find the final result

Find the sum and average

## The name

##  The sum

##  The average

##

##

##

##

##

**2- Set the properties of the object in the form1**

|  |
| --- |
| label1  |
| caption | the name |
|  label2 |
| caption | the sum |
| text1 |
| name | txtname |
| text | blank |
| text2 |
| name | txtsum |
| text  | blank |
| text3 |
|  name | txtavg |
| command1 |
| caption | find the sum and average |
| name | cmdaddavg |
| command 2 |
| caption | find the final result |
| name | cmdfinal |
| command 3 |
| caption | exit |
| name | cmdexit |

**3- Write the code of cmdaddavg**

**Private sub cmdaddavg\_click()**

Dim a, i, j, S As Integer

Dim n As String

n = InputBox("enter the name", "name box", , 1500, 5000 )

S = 0

**For j = 1 To 3**

a = InputBox("enter the degree", "degree box", , 1500, 5000(

S = S + a

### Next j

av = S / 3

txtname.Text = n

txtsum.Text = S

txtavg.Text = av

### End Sub

**4- Write the code of cmdfinal**

#### Private Sub cmdfinal\_Click()

Form1.Hide

Load Form2

Form2.txtfinal.text=” “

Form2.Show

### End Sub

This procedure will be transferred to the **form2** to find the **final result of students.**

**5- Write the code of cmdexit**

#### Private Sub cmdexit\_Click()

End

### End Sub

This procedure terminated the program.

### Then we must add the form2 to find the final result of students

### To add form2 to the project follows this step

1. Go to project menu in menu bar and then click on the **add form**. So the form2 will be added.

**After that design the user interface of form2 as shown below**

 The final result

Form2

command

Find the final result

Back to the first window

**2-Set the properties of the objects in form2 as shown below**

|  |
| --- |
| label1  |
| caption | The final result |
| text1 |
| name | txtfinal |
| text | blank |
| command1 |
| name  | cmdfinal |
| caption | Find the final result |
| command2  |
| name  | cmdback |
| caption  | Back to the first window |

**3-write the code of cmdfinal**

**Private sub cmdfinal\_click ()**

**if** av >=50 then

txtfinal.text= “succeeded”

**Else**

txtfinal.text = " failed"

**End if**

**End sub**

We can use the object txtavg that contain the value of av in form1 instead of the variable av in form2 to find the final result of the student. In this case we don’t need to declare the variable av in general section of base module and the code of cmdfinal well be become as follows :

**private sub cmdfinal\_click ()**

**if** **form1.txtavg.text** >=50 then

txtfinal.text= “succeeded”

**Else**

txtfinal.text = " failed"

**End if**

**End sub**

**4- Write the code of cmdback**

**Private sub cmdback\_click**

 form2**.**hide

 load form1

 form1**.**txtname**.**text= “ “

 form1**.**txtsum **.**text =” “

 form1**.**txtavg **.**text =” “

 form1**.**show

**End sub**

**H.W(2):-** Write the program in visual basic consists of **one form** to find the **sum of four degrees** and **average of them for three students** , and use the **msgbox** (consists of **Ok** command and **cancel** command)to ask the user if you want to find the final result of students (i.e. Succeeded or failed) depend on the value of average for each pupil, by click on the command **Ok i.e**. the user want to find the final result else the user print the empty string in textbox.

**Sol:-**

1. Design the user interface of form1 as shown below

The name

The sum

 The average

 The final result

## Form1

### Find the sum and average

**2-set the properties of the objects in the form1**

|  |
| --- |
| label1  |
| caption | the name |
| label2 |
| caption | the sum  |
| label3  |
| caption | the average |
|  label4 |
|  caption | the final result |
|  txet1 |
|  name  | txtname |
|  text  | blank |
|  text2  |
| name  | txtsum |
| text  | blank |
| text3  |
| name  | txtaverage |
|  text  | blank |
| text4  |  |
| name  | txtfinal |
|  text  | blank |
| command1 |
| caption  | find the sum and average |
| name  | cmdaddsum |

**3-write the code of cmdaddsum**

**Private Sub** cmdaddsum\_Click

Dim i, j, s, d, tmsg As Integer

Dim a As String

Dim av as double

**For i = 1 To 3**

a = InputBox("enter the name ", "the name window", , 4000, 2500(

 s = 0

txtname**.**Text=” “

 txtsum**.**Text=” “

 txtaverage **.**Text= “ “

 txtfinal**.**Text=” “

**For j = 1 To 4**

d = InputBox("enter the degree", "degree window", , 4000, 2500(

s = s + d

**Next j**

av = s / 4

txtname.Text = a

txtsum.Text = s

txtaverge.Text = av

tmsg = MsgBox("are you want to find the final result", vbOKCancel,"welcome( "

**If** tmsg = 1 **Then**

 **If av >= 50 Then**

 txtfinal.Text = "succeeded"

 **Else**

 txtfinal.Text = "failed”

 **End If**

Else

 Txtfinal.text=””

 **End If**

## Next i

## End Sub

**H.W (3):-** Design the user interface contains the **frame** and **four options** grouped in the frame and. And then print welcome on the form if the user chooses the option1 or change the back color of form is red if the user chooses option2, or make the clear the form if the user chooses option3 and if the user chooses option4 to terminate the program.

**Sol:-**

Private Sub Form\_activate()

Option1.Value = False

End Sub

………………………………

Private Sub Option1\_Click()

Print "welcome"

End Sub

……………………………………….

Private Sub Option2\_Click()

Form1.BackColor = vbRed

End Sub

………………………………………..

Private Sub Option3\_Click()

Form1.Cls

End Sub

…………………………

Private Sub Option4\_Click()

End

End Sub

**Example (4):-** Design the user interface contains command buttons, the **frame** and **four options** grouped in the frame and. And then print welcome on the form if the user chooses the option1 or change the back color of form is blue if the user chooses option2, or make the clear the form if the user chooses option3 and if the user chooses option4 to terminate the program.

**Sol:-**

Private Sub Form\_activate()

Option1.Value = False

End Sub

……………………………………….

Private Sub Command1\_Click()

If Option1.Value = True Then

Print "welcome"

ElseIf Option2.Value = True Then

Form1.BackColor = vbBlue

ElseIf Option3.Value = True Then

Form1.Cls

Else

End

End If

End Sub