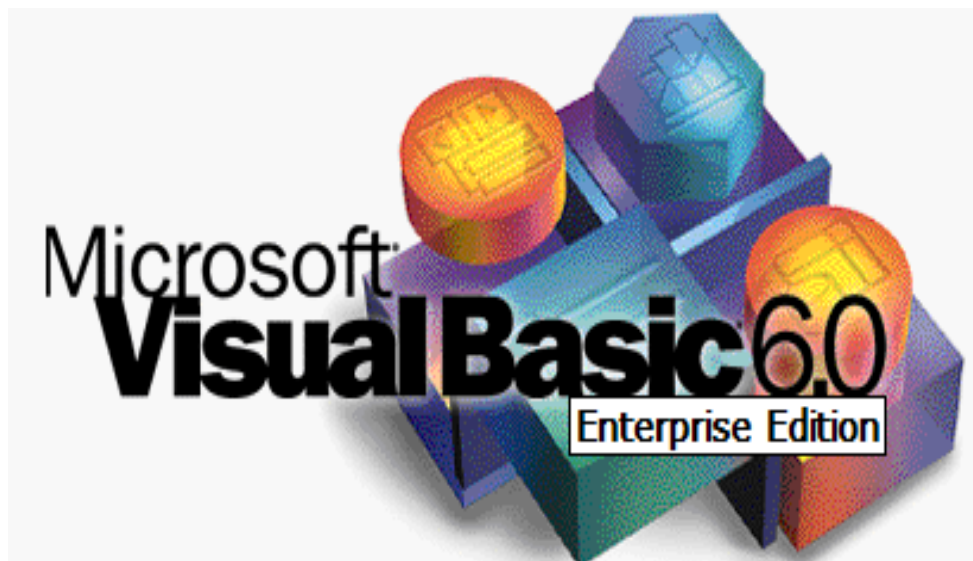




UNESCO-NIGERIA TECHNICAL &
VOCATIONAL EDUCATION
REVITALISATION PROJECT-PHASE II



NATIONAL DIPLOMA IN COMPUTER TECHNOLOGY



OOBASIC/VISUAL BASIC PROGRAMMING

COURSE CODE: COM 211

**YEAR I SEMESTER II
PRACTICAL
Version 1: December,2008**

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WEEK 1

LAB

1. State the stages of systems development cycle?

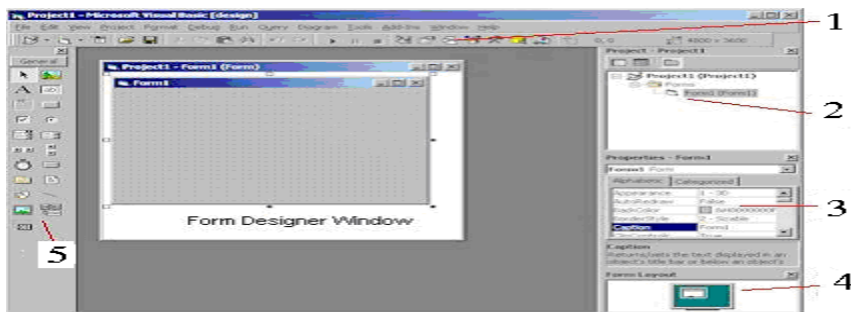
-
-
-
-

2. Start Visual Basic 6 and write the steps you followed to achieve that ?

-
-
-
-

3. Itemize the labeled parts of the Visual Basic environment as seen in the figure below ?

- 1-
- 2-
- 3-
- 4-
- 5-



4. Get online help about picture box control ? and write the steps you followed to achieve that ?

-
-

5. And, Get help about BackColor for the control ? and write the steps you followed to achieve that ?

6. How do you display the contents of the help of VB ?

-
-

7. Open the "hello" project form from your own folder ? and write steps you followed to achieve that ?

-
-
-
-

8. Create new project with application wizard from with the following specifications:

- The project is a Single Document Interface
- The menu have these options (File, Edit, Window, and Help)
- Select appropriate submenu
- No need for resource file
- No Access for Internet
- The About box is accessed from Help menu and provides your program description and version.
- No need for data form

9. Run the above project ? and write steps ?

-
-
-
-

10. Save the above project with the name (wizard project) in your folder? and write steps ?

-
-

11. Create executable File for the above project ? and write steps ?

-
-
-
-

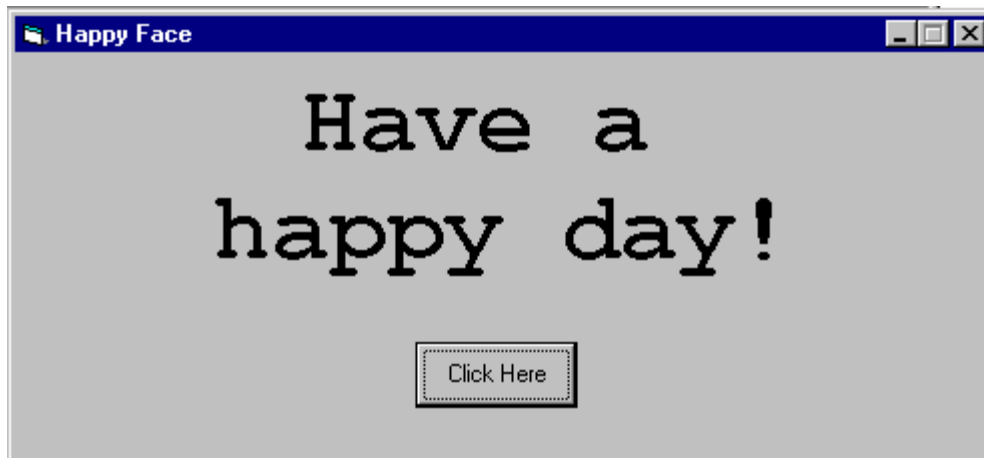
12. Close Visual Basic 6 ?

-
-

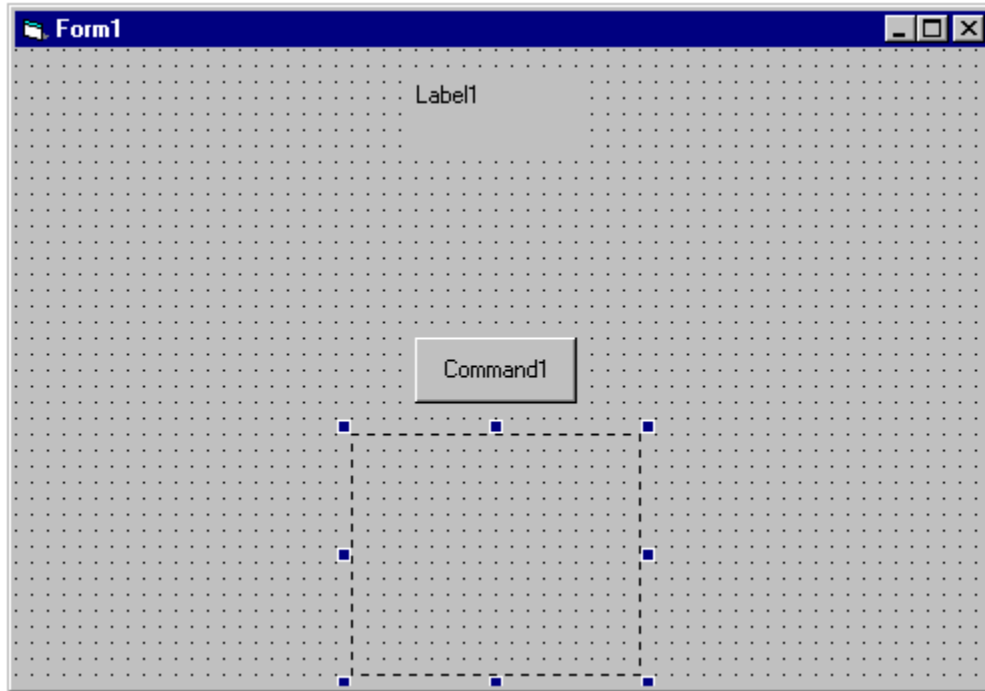
WEEK 2

LAB

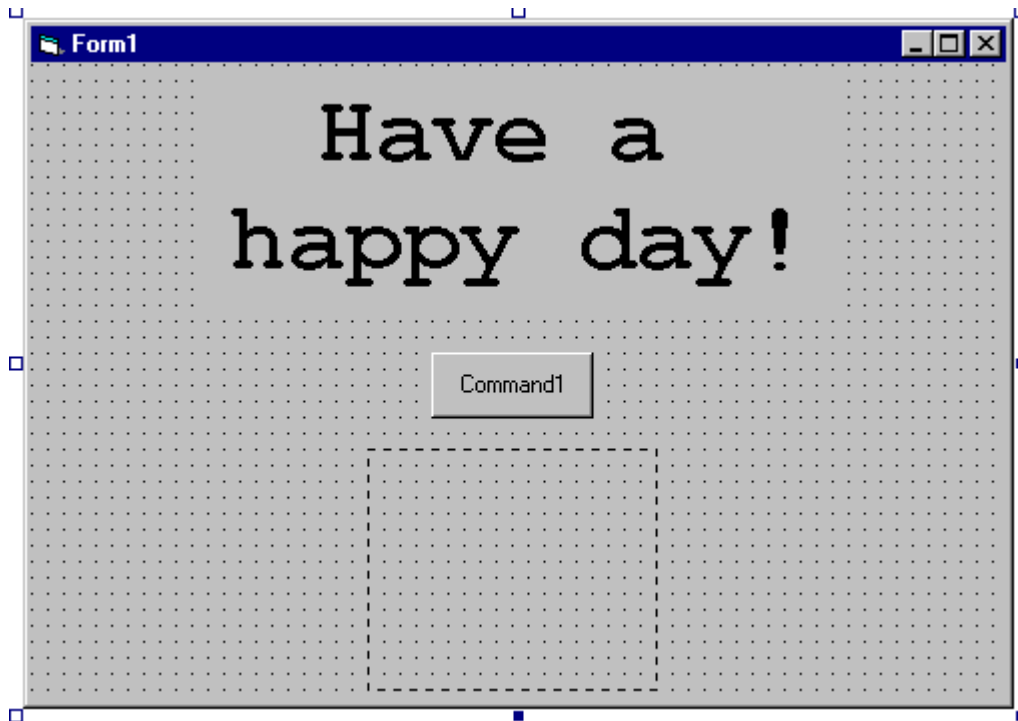
During This Lab we want to create a new project with the name "week2_1" and the final form look like the following figure and when you click on the button "Click Here" the text on the form will change with "Well Done".



13. Start Visual Basic 6
14. In the New Project box, Click Standard.EXE and then Click OK.
15. Double-click the Label control. Visual Basic puts a new label in the center of your Form window. Move the control higher on the form to the approximate
16. Double-click the Command Button control to place a command button in the middle of your Form window. Leave the command button where it appears for now.
17. Click once on the Image control. Move your mouse to the Form window. The mouse pointer appears as a plus sign to show that you've selected a control.
18. Drag your mouse to outline the new Image control on the Form window. Next Figure shows where you should place the control. Try to get close to the figure's placement and size.

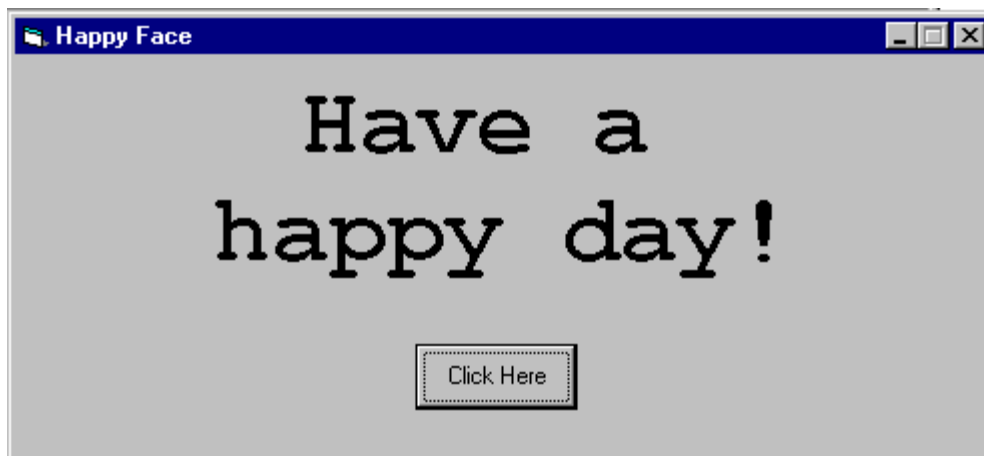


19. Click the control named Label1 to display the label's properties in the Properties window.
20. Click the Properties window's Caption entry.
21. Type Have a happy day! As you type, you'll see the label's caption change.
22. Click the Properties window's Font entry. A font name doesn't appear, but a set of ellipsis does. Ellipsis after a property value always indicates that you can select from a list of choices rather than type the value directly into the Properties window.
23. Click the Font entry's ellipsis to display the Font dialog box. A font supports multiple properties, so you must use the dialog box to specify the font name, size, and style.
24. Select the Courier New font, with a Bold style and a 36-point size.
25. Close the Font dialog box. Resize the label's caption to see more of it. Although you can drag the label's edges, you'll instead enter location and size values directly in the Properties window so that your application matches the one in this book.
26. Set these Properties window values: Left, 1,320; Height, 1,695; Top, 120; and Width, 4,695. You can now read the new label's caption, but the caption is still left-justified. Expand the Properties window's width if you need more room to read the property values.
27. Click the label's Alignment property. Click the drop-down list box arrow to open the list box and you'll find three values: Left Align, Right Justify, and Center Justify. Select Center Justify, and the label straightens up nicely.



28. Select the form's command button, click the Caption property, and then type Click Here for the caption.
29. Double click the command button, write this Code in the click event procedure

```
Label1.Caption = "Well Done"
```
30. Save your project with the name "week2_1" in your folder.

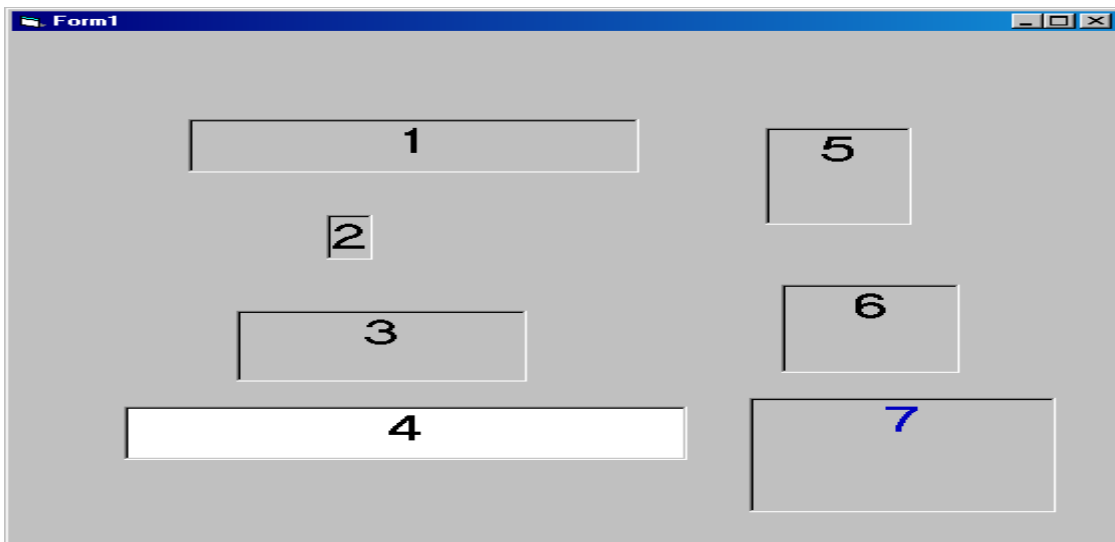


WEEK 3

Lab

During This Lab we want to create a new project with the name “week3” and the final form look like the following figure and when you click on the Label “1” the text “4” will change with “Welcome you to our Lab”.

1. Create new project
2. In the New Project box, Click Standard.EXE and then Click OK.
3. Add Label controls and change its properties to look like this form.



4. Double click the Label with the caption “1”, write this Code in the click event procedure
`Label4.Caption = “Welcome you to our Lab”`
5. Save your project with the name “week3” in your folder.

Practical Exercise:

1. Describe the various types of variables in Visual Basic
2. State the rules for forming variable name in Visual basic

Week 4

Lab

During This Lab we want to create a new project with the name “Week4” to change the label properties and the final form look like the following figure. Each button have a caption describe its effect.



31. Start Visual Basic 6
32. In the New Project box, Click Standard.EXE and then Click OK.
33. Change the form caption to "Label Form"
34. Double-click the Label control. And Change its properties as in figure.
35. Double-click the Command Button control to place a command button in the middle of your Form window. Repeat this step 8 times to add 8 command button controls and change its appearance as in figure and its caption as in the following table.

Control Name	Caption
Command1	Red Font Color
Command2	Black Font Color
Command3	Label With Border
Command4	Label Without Border
Command5	White Background
Command6	Yellow Background

Command7	Enable Label
Command8	Disable Label

36. Double-click on the buttons and write the code as in the following table.

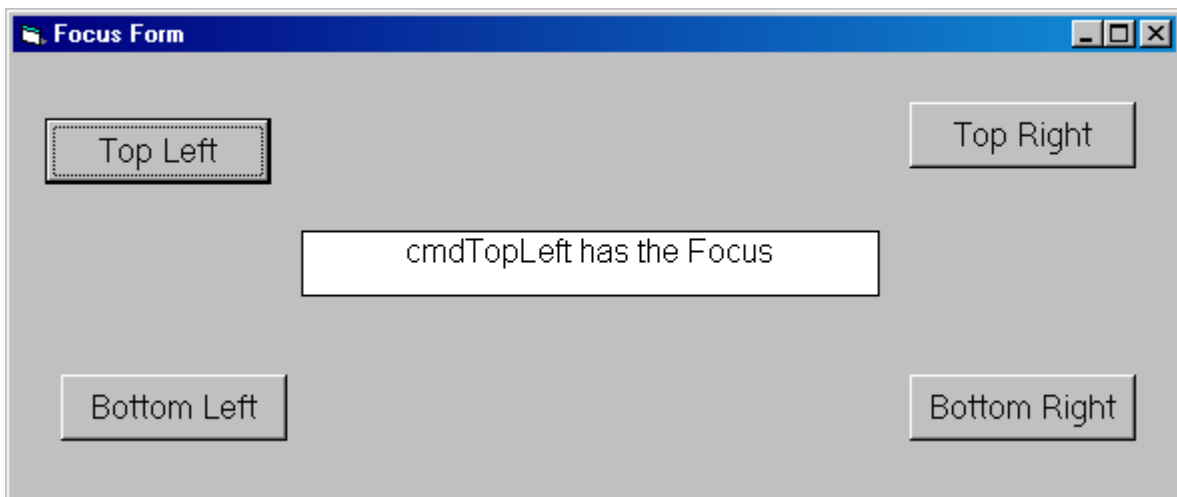
Control Name	Click Event
Command1	Label1.ForeColor = ColorConstants.vbRed
Command2	Label1.ForeColor = ColorConstants.vbBlack
Command3	Label1.BorderStyle = 1
Command4	Label1.BorderStyle = 0
Command5	Label1.BackColor = ColorConstants.vbWhite
Command6	Label1.BackColor = ColorConstants.vbYellow
Command7	Label1.Enabled = True
Command8	Label1.Enabled = False

37. Run the program.

WEEEEK 5

Lab 1

During This Lab we want to create a new project with the name “week5-1” and the final form look like the following figure. Label1 display the command button which has the focus.



6. Create new project
7. In the New Project box, Click Standard.EXE and then Click OK.
8. Add Label controls and change its properties to look like as in figure form.
9. Add 4 command button and change its caption as in the following table

Control Name	Caption
Command1	Top Left
Command2	Top Right
Command3	Bottom Left
Command4	Bottom Right

10. Write this code for commands.

```
Private Sub Command1_GotFocus()  
    Label1.Caption = "cmdTopLeft has the Focus"
```

```
End Sub
```

```
Private Sub Command2_GotFocus()  
    Label1.Caption = "cmdTopRight has the Focus"
```

```
End Sub
```

```
Private Sub Command3_GotFocus()  
    Label1.Caption = "cmdBottomRight has the Focus"
```

```
End Sub
```

```
Private Sub Command4_GotFocus()  
    Label1.Caption = "cmdBottomLeft has the Focus"
```

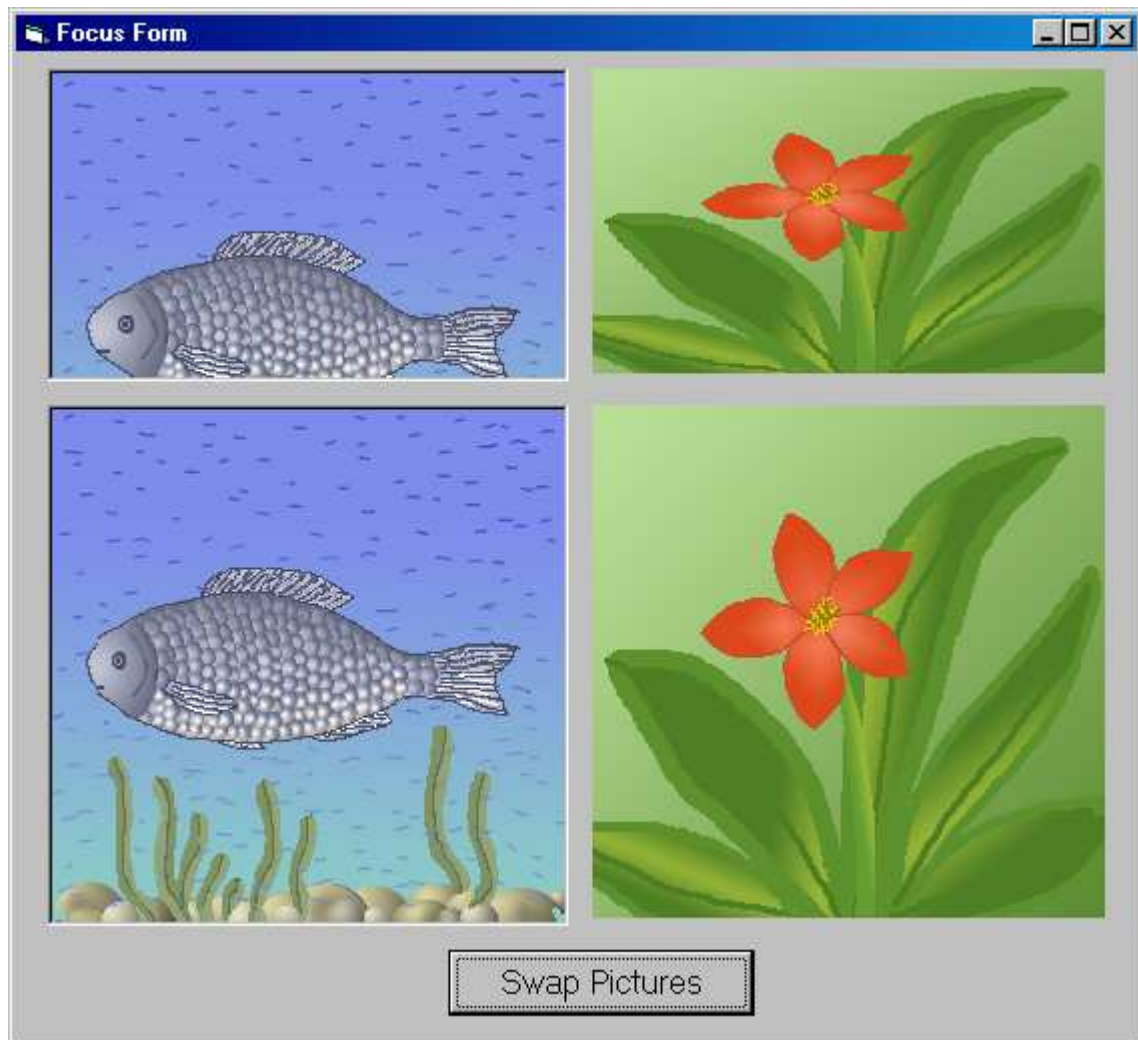
```
End Sub
```

11. Save your project with the name "week5_1" in your folder.
12. Run the program

Week 6

Lab 2

During This Lab we want to create a new project with the name “week5_2” and the final form look like the following figure.



13. Create new project
14. In the New Project box, Click Standard.EXE and then Click OK.
15. Add command button controls and change its caption to "Swap pictures".
16. Add 2 picture box button and change its properties to as in the following table

Control Name	Caption
Piture1	Autosize = false Picture name = fish-07
Piture2	Autosize = true Picture name = fish-07

17. Add 3 image button and change its properties to as in the following table

Control Name	Caption
image1	strech = false Picture name = flower21
Image2	strech = true Picture name = flower21

18. Write this code for command1

```
Private Sub Command1_Click()
    Image3.Picture = Picture2.Picture
    Picture2.Picture = Image2.Picture
    Image2.Picture = Image3.Picture
End Sub
```

19. Save your project with the name "week5_2" in your folder.
20. Run the program

WEEK 7

Lab 1

During This Lab we want to create a new project with the name "Week6_1" to display your full name you entered and to convert temperature from Celsius to Fahrenheit and. The main form look like this form

The screenshot shows a Windows application window titled "Procedures And Functions". The window contains two sections:

- String Part:** This section has two text input fields. The first is labeled "Enter first name" and the second is labeled "Enter second name". Below these is a command button labeled "Full Name" and a yellow rectangular area, likely a label, for displaying the result.
- Numeric Part:** This section has one text input field labeled "Enter temperature" and a command button labeled "Convert to fahrenheit" below it. To the right of the button is another yellow rectangular area for displaying the result.

38. Open project week6_1

39. Double-click the "Full Name" Command button and write this code

```
Dim first_name As String
Dim second_name As String
Dim full_name As String
first_name = Text1.Text
second_name = Text2.Text
full_name = "Welcome Mr. " + first_name + " " + second_name
Label3.Caption = full_name
```

40. Double-click the "Convert to Fahrenheit " Command Button and write this code

```
Dim var_c As Integer
Dim var_f As Integer
var_c = Val(Text3.Text)
var_f = var_c * 9 / 5 + 32
Label7.Caption = var_f
```

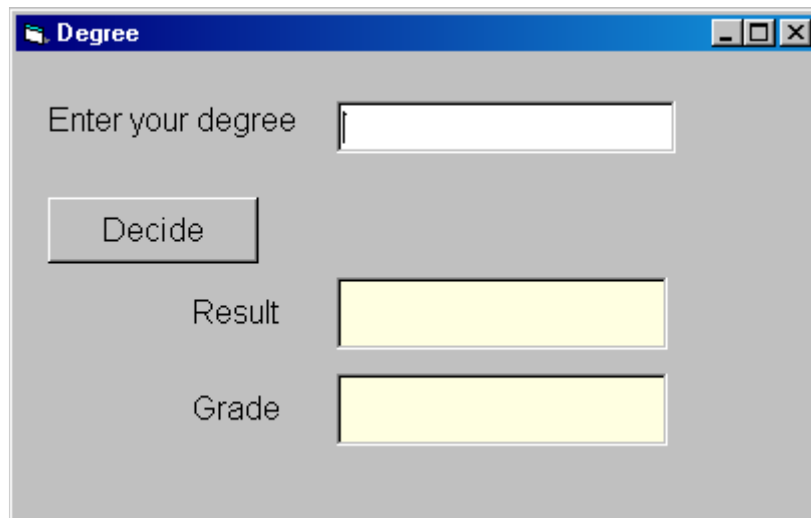
41. Save your project with the name "week6_1" in your folder.

42. Run the program

WEEK 8

Lab 2

During This Lab we want to Complete a project "Week6_2" to enter degree and decide your result and your grade. The main form look like this form



43. Open project week5_1

44. Double-click the "Decide" Command button and write this code

```
Dim degree As Integer
```

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

```
If degree > 10 Then
```

```
    Label3.Caption = "Wrong Degree"
```

```
    Exit Sub
```

```
End If
```

```
If degree < 5 Then
```

```
    Label3.Caption = "Not Pass"
```

```
Else
```

```
    Label3.Caption = "Pass"
```

```
End If
```

```
Select Case degree
```

```
    Case 10
```

```
        Label5.Caption = "A"
```

```
    Case 9
```

```
Label5.Caption = "A-"  
Case 8  
Label5.Caption = "B"  
Case 7  
Label5.Caption = "B-"  
Case 6  
Label5.Caption = "C"  
Case 5  
Label5.Caption = "C-"  
Case Else  
Label5.Caption = "F"  
End Select
```

45. Double-click the " text1" Command button and write this code

```
If KeyAscii = 8 Then Exit Sub  
Select Case Chr(KeyAscii)  
Case "0", "1", "2", "3", "4", "5", "6", "7", "8", "9", ".", "-"  
Exit Sub  
Case Else  
KeyAscii = 0  
End Select
```

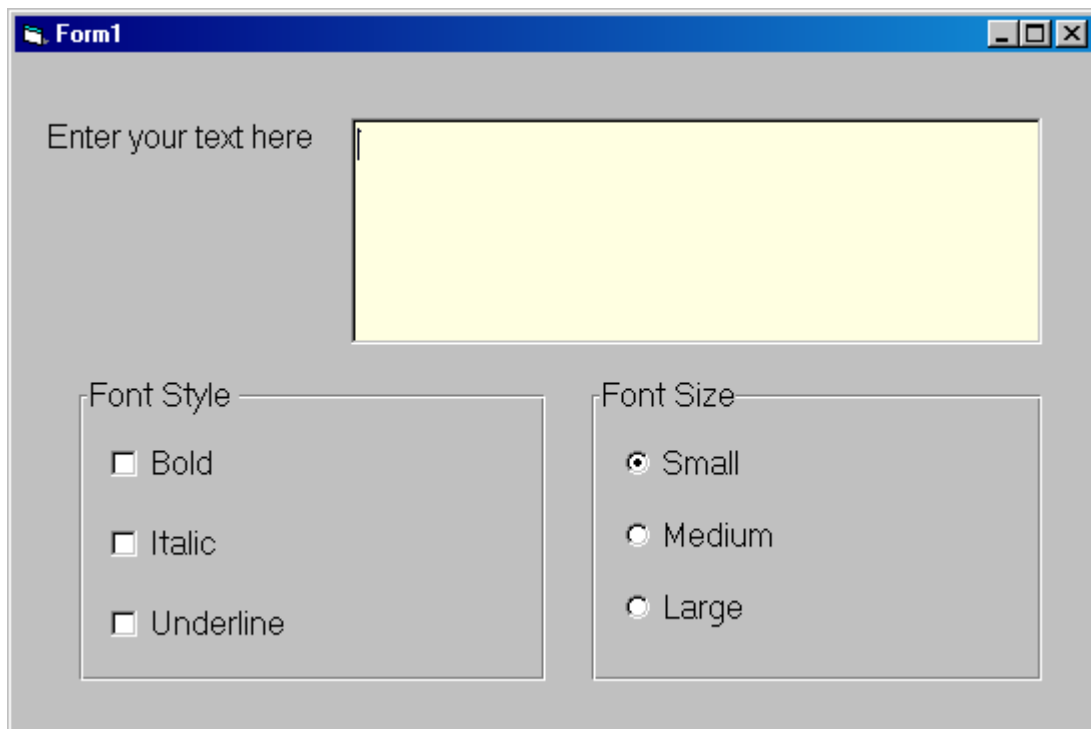
46. Save your project with the name "week6_2" in your folder.

47. Run the program

WEEK9

Lab 1

During This Lab we want to Complete a project "Week7_1" to enter a text and format its font. The main form look like this form



The screenshot shows a Windows application window titled "Form1". Inside the window, there is a text input field with the placeholder text "Enter your text here". Below the input field, there are two panels for font formatting. The left panel, titled "Font Style", contains three checkboxes: "Bold", "Italic", and "Underline". The right panel, titled "Font Size", contains three radio buttons: "Small", "Medium", and "Large". The "Small" radio button is selected.

48. Open project week7_2

49. Double-click the " Bold" Command button and write this code

```
If Check1.Value = 1 Then  
    Text1.FontBold = True
```

```
Else
    Text1.FontBold = False
End If
```

50. Double-click the " Italic" Command button and write this code

```
If Check2.Value = 1 Then
    Text1.FontItalic = True
Else
    Text1.FontItalic = False
End If
```

51. Double-click the " Underline" Command button and write this code

```
If Check3.Value = 1 Then
    Text1.FontUnderline = True
Else
    Text1.FontUnderline = False
End If
```

52. Double-click the " Small" Command button and write this code

```
Text1.FontSize = 12
```

53. Double-click the " Medium" Command button and write this code

```
Text1.FontSize = 18
```

54. Double-click the " Large" Command button and write this code

```
Text1.FontSize = 24
```

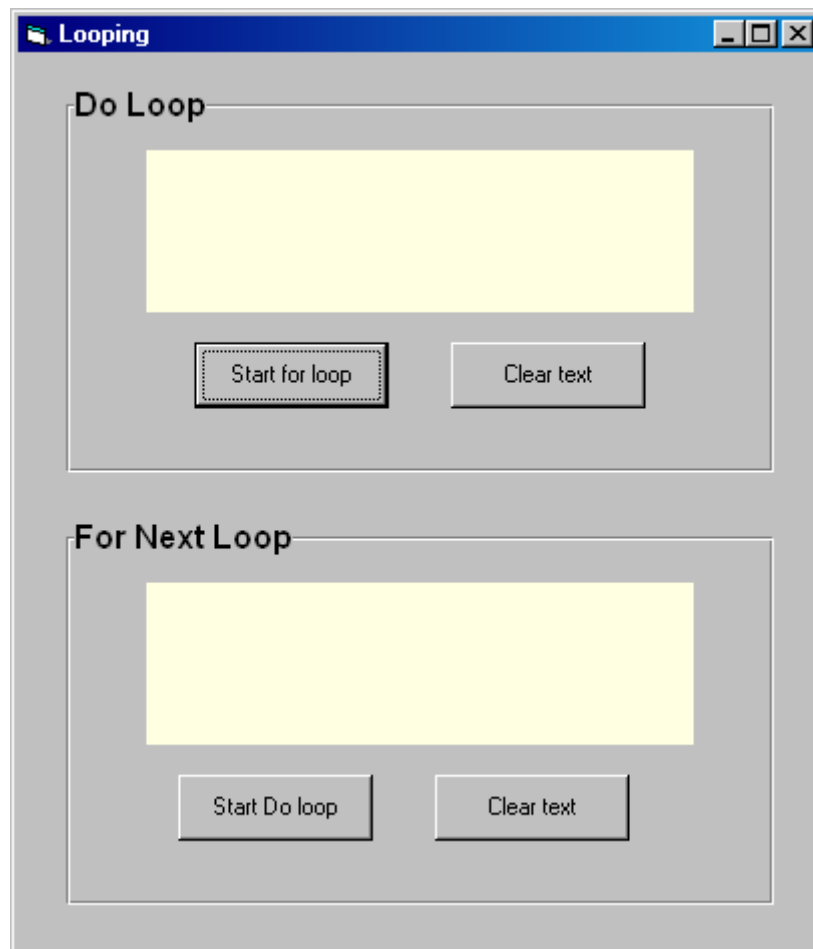
55. Save your project with the name "week7_1" in your folder.

56. Run the program

WEEK10

Lab 2

During This Lab we want to Complete a project “Week7_2” to display the numbers from 5 to 20 and numbers from 15 to 5. The main form look like this form



The image shows a Windows application window titled "Looping". The window contains two main sections, each with a yellow text area and two buttons below it.

The first section is titled "Do Loop". It features a large yellow rectangular area for text. Below this area are two buttons: "Start for loop" and "Clear text".

The second section is titled "For Next Loop". It also features a large yellow rectangular area for text. Below this area are two buttons: "Start Do loop" and "Clear text".

57. Open project week6_1

58. Double-click the " Start Do loop" Command button and write this code

```
Dim counter1 As Integer

counter1 = 5
Do While counter1 < 21
    Label1.Caption = Label1.Caption + " " + Str(counter1)
    counter1 = counter1 + 1
Loop
```

59. Double-click the " Clear Do text" Command button and write this code

```
Label1.Caption = ""
```

60. Double-click the " StartFor loop" Command button and write this code

```
Dim counter1 As Integer

counter1 = 5
Do While counter1 < 21
    Label1.Caption = Label1.Caption + " " + Str(counter1)
    counter1 = counter1 + 1
Loop
```

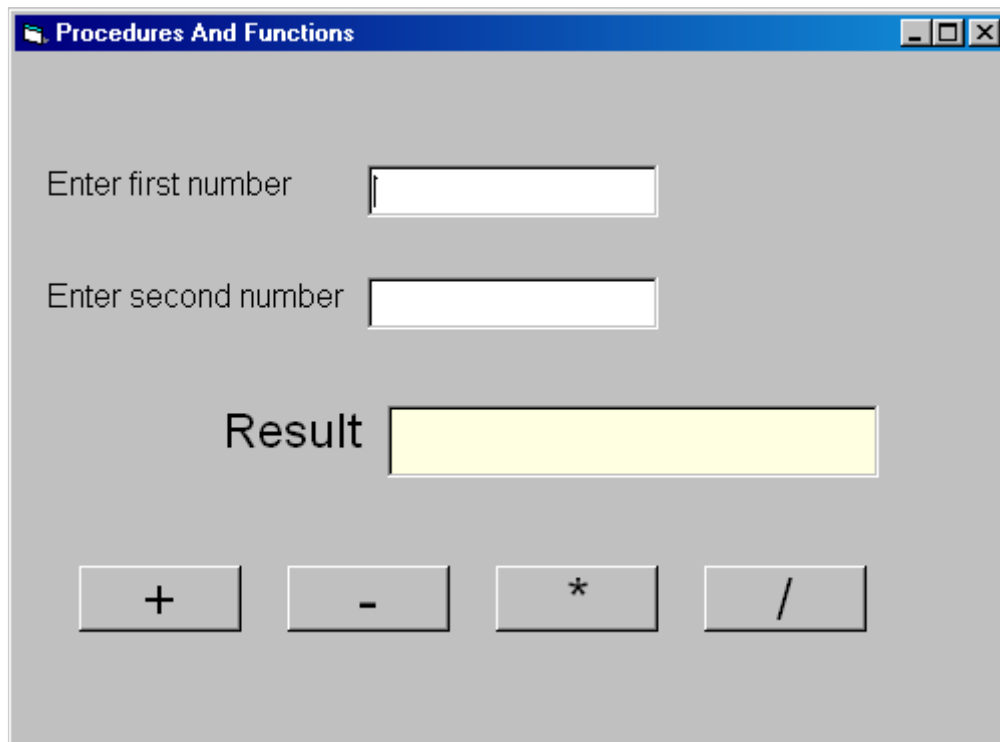
61. Double-click the " Clear For text " Command button and write this code

```
Label2.Caption = ""
```

62. Save your project with the name "week7_2" in your folder.

16 Run the program

During This Lab we want to Complete a project "Week8_1" to simulate a simple calculator using procedures and functions. The main form look like this form



63. Open project week8_1

64. Double-click on the form and write the following code for four procedures in the general part of the form

- Procedure (calc_sum)
- Procedure with arguments (calc_difference)
- Function (calc_multiplication)
- Function with arguments (calc_Division)

```
Sub calc_sum()  
    If Text1.Text = "" Or Text2.Text = "" Then  
        MsgBox "You must enter both first and second numbers"  
        Exit Sub  
    End If  
    Label3.Caption = Val(Text1.Text) + Val(Text2.Text)  
End Sub
```

```
Sub calc_difference(first_number As Integer, second_number As Integer)  
    If Text1.Text = "" Or Text2.Text = "" Then  
        MsgBox "You must enter both first and second numbers"  
        Exit Sub  
    End If  
    Label3.Caption = first_number - second_number
```

End Sub

```
Function calc_multiplication() As Integer
    If Text1.Text = "" Or Text2.Text = "" Then
        MsgBox "You must enter both first and second numbers"
        Exit Function
    End If
    calc_multiplication = Val(Text1.Text) * Val(Text2.Text)
```

End Function

```
Function calc_Division(first_number As Integer, second_number As Integer) As Integer
    If Text1.Text = "" Or Text2.Text = "" Then
        MsgBox "You must enter both first and second numbers"
        Exit Function
    End If
    If second_number = 0 Then
        MsgBox "The second number must not equal to zero"
        Exit Function
    End If
    calc_Division = (first_number / second_number)
```

End Function

65. Double-click the " + " Command button and write this code

```
calc_sum
```

66. Double-click the " - " Command button and write this code

```
calc_difference Val(Text1.Text), Val(Text2.Text)
```

67. Double-click the " * " Command button and write this code

```
Label3.Caption = calc_multiplication
```

68. Double-click the " / " Command button and write this code

```
Label3.Caption = calc_Division(Val(Text1.Text), Val(Text2.Text))
```

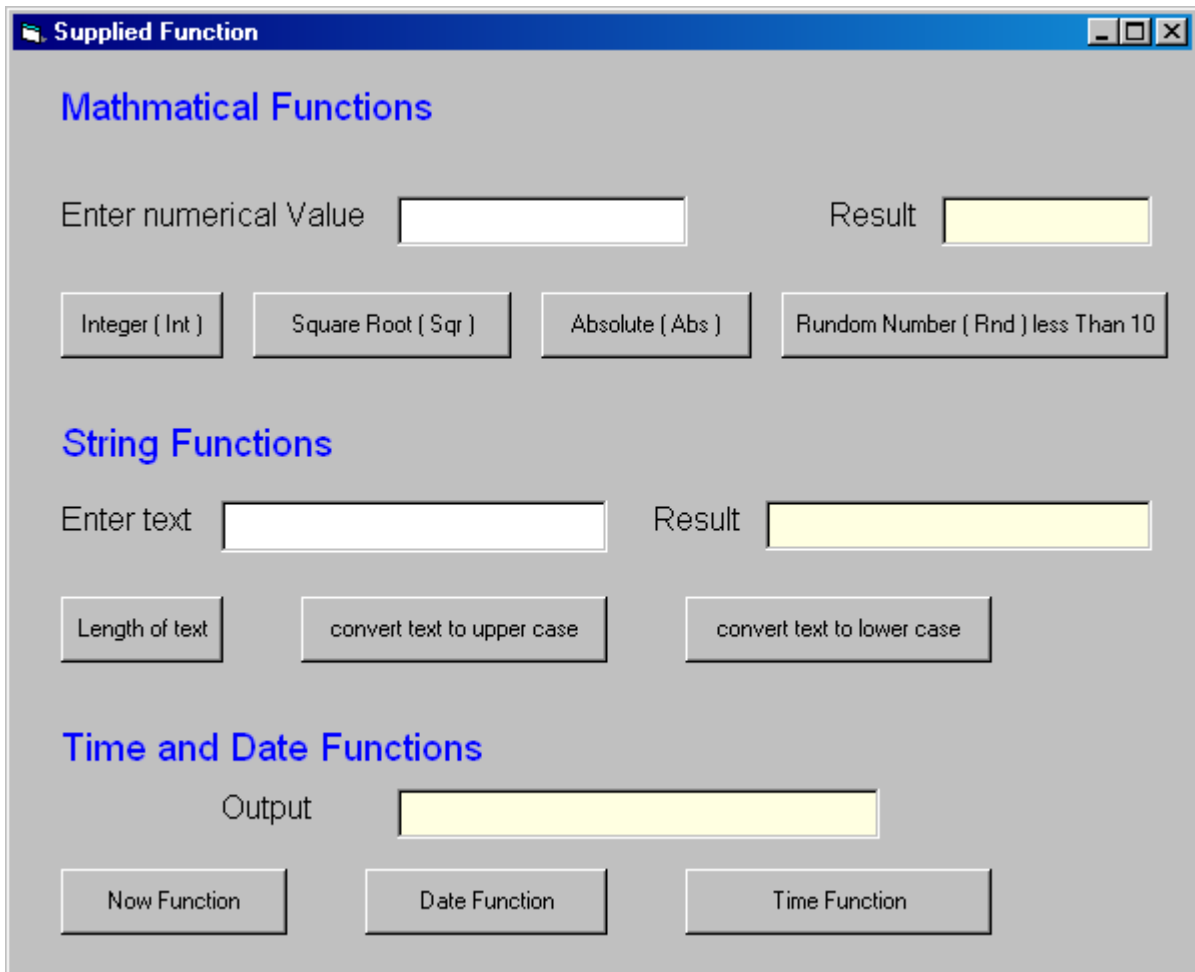
69. Save your project with the name "week9_1" in your folder.

70. Run the program

WEEK11

Lab 2

During This Lab we want to Complete a project “Week9_2” to simulate Supplied function. The main form look like this form



1. Open project week8_2
2. Double-click "the Integer (Int)" Command button and write this code

```

If Text1.Text = "" Then
    MsgBox "You must enter numerical value first "
    Exit Sub
End If
Label3.Caption = Int(Text1.Text)

```

3. Double-click " Square Root (Sqr)" Command button and write this code

```

If Text1.Text = "" Then
    MsgBox "You must enter numerical value first "
    Exit Sub
End If
Label3.Caption = Sqr(Text1.Text)

```

4. Double-click " Absolute (Abs)" Command button and write this code

```
If Text1.Text = "" Then
    MsgBox "You must enter numerical value first "
    Exit Sub
End If
Label3.Caption = Abs(Text1.Text)
```

5. Double-click " Rndom Number (Rnd) less Than 10" Command button and write this code

```
Label3.Caption = Int((10 * Rnd) + 1)
```

6. Double-click " Length of text" Command button and write this code

```
Label8.Caption = Len(Text2.Text)
```

7. Double-click " convert text to upper case" Command button and write this code

```
Label8.Caption = UCase(Text2.Text)
```

8. Double-click " convert text to lower case Command button and write this code

```
Label8.Caption = LCase(Text2.Text)
```

9. Double-click " Now Function" Command button and write this code

```
Label11.Caption = Now
```

10. Double-click " Date Function" Command button and write this code

```
Label11.Caption = Date
```

11. Double-click " Time Function" Command button and write this code

```
Label11.Caption = Time
```

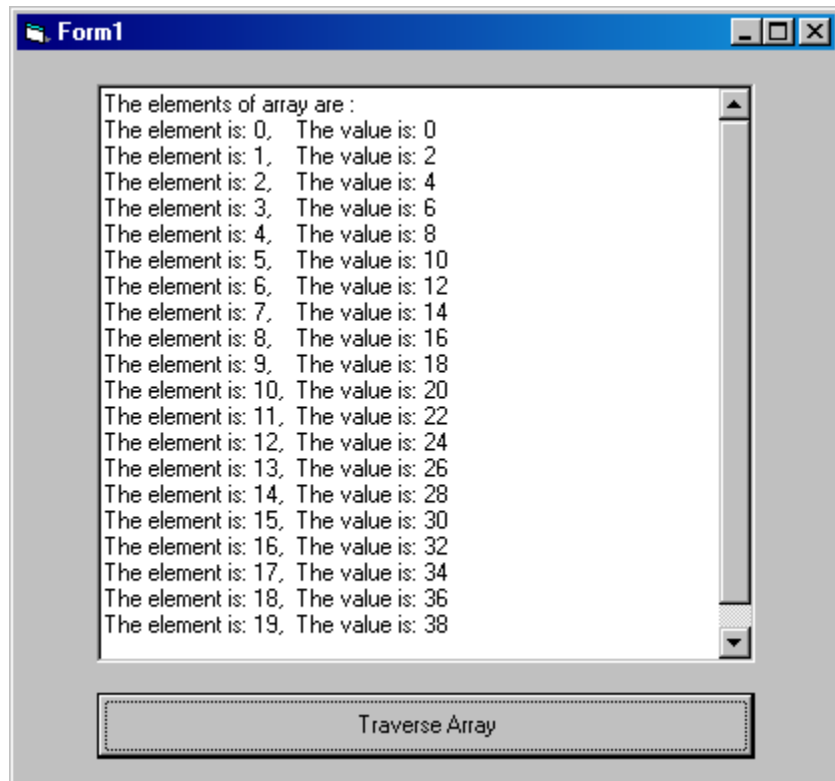
12. Save your project with the name "week8_2" in your folder.

13. Run the program

WEEK 12

Lab 1

During This Lab we want to Complete a project “Week9_1” to add the numbers (0,2,4,.....36,38) to one dimension array and display it in a text box. The main form look like this form



71. Open project “week9_1”

72. Double-click the " Traverse Array" Command button and write this code

```
Dim i As Integer  
Dim iMyArray(19) As Integer  
Dim BeginMsg As String  
Dim MidMsg As String  
Dim LoopMsg As String  
Dim FullMsg As String
```

```
For i = 0 To 19
```

```
    iMyArray(i) = i * 2
```

```
Next i
```

```
BeginMsg = "The element is: "  
MidMsg = "The value is: "  
FullMsg = "The elements of array are : " & vbCrLf  
For i = 0 To 19  
    LoopMsg = LoopMsg & BeginMsg & i & "," & vbTab  
    LoopMsg = LoopMsg & MidMsg & iMyArray(i)  
    FullMsg = FullMsg & LoopMsg & vbCrLf  
    LoopMsg = ""  
Next i  
  
Text1.Text = FullMsg
```

73. Save your project with the name "week9_1" in your folder.

74. Run the program

During This Lab we want to Complete a project "Week9_2" to add the numbers (0,38) (2,36)(36,2) (38,0) to two dimension array and display it in a text box. The main form look like this form

The elements of array are :

The element is: (0,0)	The value is: 0	The element is: (0,1)	The value is: 38
The element is: (1,0)	The value is: 2	The element is: (1,1)	The value is: 36
The element is: (2,0)	The value is: 4	The element is: (2,1)	The value is: 34
The element is: (3,0)	The value is: 6	The element is: (3,1)	The value is: 32
The element is: (4,0)	The value is: 8	The element is: (4,1)	The value is: 30
The element is: (5,0)	The value is: 10	The element is: (5,1)	The value is: 28
The element is: (6,0)	The value is: 12	The element is: (6,1)	The value is: 26
The element is: (7,0)	The value is: 14	The element is: (7,1)	The value is: 24
The element is: (8,0)	The value is: 16	The element is: (8,1)	The value is: 22
The element is: (9,0)	The value is: 18	The element is: (9,1)	The value is: 20
The element is: (10,0)	The value is: 20	The element is: (10,1)	The value is: 18
The element is: (11,0)	The value is: 22	The element is: (11,1)	The value is: 16
The element is: (12,0)	The value is: 24	The element is: (12,1)	The value is: 14
The element is: (13,0)	The value is: 26	The element is: (13,1)	The value is: 12
The element is: (14,0)	The value is: 28	The element is: (14,1)	The value is: 10
The element is: (15,0)	The value is: 30	The element is: (15,1)	The value is: 8
The element is: (16,0)	The value is: 32	The element is: (16,1)	The value is: 6
The element is: (17,0)	The value is: 34	The element is: (17,1)	The value is: 4
The element is: (18,0)	The value is: 36	The element is: (18,1)	The value is: 2
The element is: (19,0)	The value is: 38	The element is: (19,1)	The value is: 0

Traverse Array

75. Open project week9_2

76. Double-click the " Traverse Array" Command button and write this code

```
Dim i As Integer
Dim j As Integer
Dim iMyArray(19, 1) As Integer
Dim BeginMsg As String
Dim MidMsg As String
Dim LoopMsg As String
Dim FullMsg As String
```

```
For i = 0 To 19
```

```
    iMyArray(i, 0) = i * 2
    iMyArray(i, 1) = 38 - i * 2
```

```
Next i
```

```
BeginMsg = "The element is: "
MidMsg = "The value is: "
FullMsg = "The elements of array are : " & vbCrLf
LoopMsg = ""
For i = 0 To 19
```

```

For j = 0 To 1
    LoopMsg = LoopMsg & BeginMsg & "( " & i & "," & j & " )"
    LoopMsg = LoopMsg & vbTab & MidMsg & iMyArray(i, j)
    LoopMsg = LoopMsg & vbTab
Next j
FullMsg = FullMsg & LoopMsg & vbCrLf
LoopMsg = ""
Next i

Text1.Text = FullMsg

```

77. Save your project with the name "week9_2" in your folder.
78. Run the program

During This Lab we want to Complete a project "Week10_1" to simulate using List box (Add Item, Delete Item, Clear List) and combo box. The main form look like this form

79. Open project week10_1
80. Add one ListBox and two combobox controls and format it as above
81. Change the Style property of Combo2 to 1- Simple Combo and resize as in final form.

82. Double-Click on the form itself and writ this code to add element to ListBox control and the Combo Box Controls

```
List1.AddItem "Mohamed"  
Combo1.AddItem "Mohamed"  
Combo2.AddItem "Mohamed"
```

```
List1.AddItem "Ali"  
Combo1.AddItem "Ali"  
Combo2.AddItem "Ali"  
List1.AddItem "Hassan"  
Combo1.AddItem "Hassan"  
Combo2.AddItem "Hassan"
```

```
List1.AddItem "Omer"  
Combo1.AddItem "Omer"  
Combo2.AddItem "Omer"
```

```
Combo1.Text = Combo1.List(0)  
Combo2.Text = Combo2.List(0)
```

83. Double-click the " Add Name To All" Command button and write this code

```
If Text1.Text = "" Then  
    Beep  
    Exit Sub  
End If List1.AddItem Text1.Text  
Combo1.AddItem Text1.Text  
Combo2.AddItem Text1.Text  
Text1.Text = ""  
Text1.SetFocus
```

84. Double-click the " Delete selected item" Command button and write this code

```
If List1.ListIndex >= 0 Then  
    List1.RemoveItem List1.ListIndex  
Else  
    Beep  
End If
```

85. Double-click the " Clear All items" Command button and write this code

```
List1.Clear
```

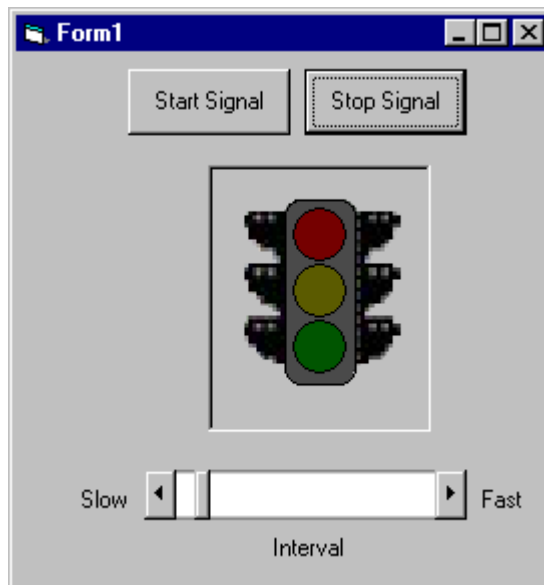
86. Save your project with the name “week10_1” in your folder.

87. Run the program

Week 13

Lab 2

During This Lab we want to Complete a project “Week10_2” to simulate a signal. The main form look like this form



1. Open project week10_2
2. Double-click the form and write this code

```
Private Sub Form_Load()  
    sequence = 0  
    HScroll1.Value = Timer1.interval
```

End Sub

3. Double-click the " Start Signal" Command button and write this code

```
Private Sub Command1_Click()  
    sequence = 0  
    Image5.Picture = Image1.Picture  
    Timer1.Enabled = True
```

End Sub

4. Double-click the " Stop Signal" Command button and write this code

```
Private Sub Command2_Click()  
  
    Timer1.Enabled = False  
    sequence = 0  
    Image5.Picture = Image4.Picture
```

```
End Sub
```

5. Double-click the HScroll1 control button and write this code

```
Private Sub HScroll1_Change()  
    Timer1.Interval = HScroll1.Value
```

```
End Sub
```

6. Double-click the Timer1 control and write this code

```
Private Sub Timer1_Timer()  
    Select Case sequence  
        Case 1  
            Image5.Picture = Image3.Picture  
        Case 2  
            Image5.Picture = Image2.Picture  
        Case 3  
            Image5.Picture = Image1.Picture  
    End Select  
    If sequence = 3 Then  
        sequence = 1  
    Else  
        sequence = sequence + 1  
    End If  
End Sub
```

7. Save your project with the name "week10_2" in your folder.
8. Run the program

During This Lab we want to Complete a project "Week11_1" to Use text boxes to enter data into a text file and later access the content of the file back . The main form looks like this form

88. Open project week11_1

89. Double-click on " The form" and write this code

```
Private Sub Form_Load()
    Dim intmsg As String
    Open "c:\documents and settings\student.txt" For Output As #1
    intmsg = MsgBox("file student.txt opened")
End Sub
```

90. Double-click on " command Exit" and write this code

```
Private Sub Cmdexit_Click()
    Close #1
    End
End Sub
```

91. Double-click on " Command Report" and write this code

Before then add another form name it "Frmprint"

```
Private Sub cmdprint_Click()
    'section to echo the file back
    Dim Name As String
    Dim Address As String
    Dim sex As String
    Dim age As Integer
    'Kill "c:\documents and settings\student.txt"
    Open "c:\documents and settings\student.txt" For Input As #1
```

```
Do While Not EOF(1)
```

```
    Input #1, Name, Address, sex, age
```

```
    Frmprint.Print "Student Name is ....."; Name
```

```
Frmprint.Print "Address is ....."; Address
Frmprint.Print "Sex is ....."; sex
Frmprint.Print "Age is ....."; age
Loop
```

End Sub

92. Double-click on " Command Save Rec" and write this code

```
Private Sub Cmdsave_Click()
    Dim Name As String
    Dim Address As String
    Dim sex As String
    Dim age As Integer
    Dim sntmsg As String

    Name = Txtname
    Address = Txtaddress
    sex = Txtsex
    age = Txtage

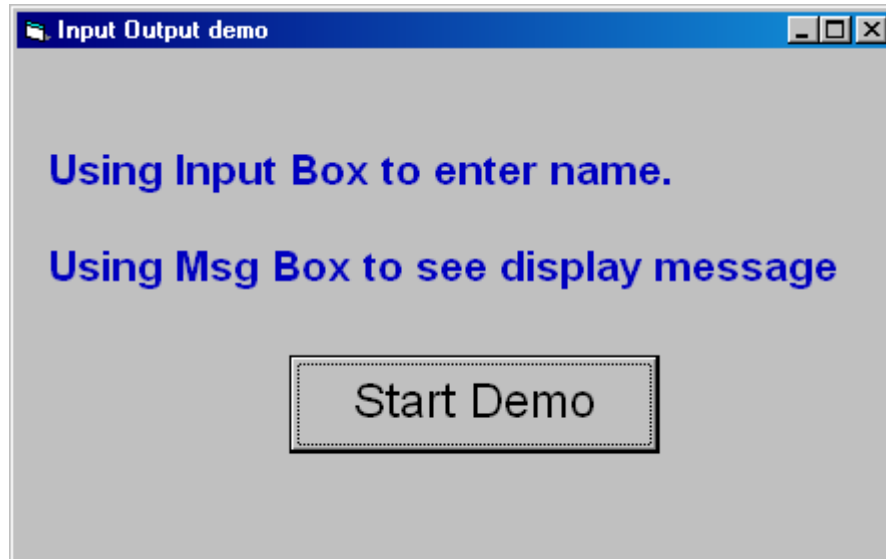
    Print #1, Name, Address, sex, age
    Close #1
    Txtname.Text = ""
    Txtaddress.Text = ""
    Txtsex.Text = ""
    Txtage.Text = ""

    sntmsg = MsgBox("file student.txt opened")
End Sub
```

93. Save your project with the name "week11_1" in your folder.

94. Run the program

During This Lab we want to Complete a project "Week11_1" to Use input box to enter data and message box to display message . The main form look like this form



95. Open project week11_2

96. Double-click on " Start Demo" and write this code

```
Dim Message, Title, Default, First_name, Second_name
```

```
Message = "Enter your First name : "
```

```
Title = "InputBox Demo" ' Set title.
```

```
Default = "Mohamed" ' Set default.
```

```
First_name = InputBox(Message, Title, Default)
```

```
If First_name = "" Then
```

```
    MsgBox "Your First name is not correct, Thanks."
```

```
    Exit Sub
```

```
End If
```

```
Message = "Enter your Second name : "
```

```
Second_name = InputBox(Message, Title, , 500, 500)
```

```
If Second_name = "" Then
```

```
    MsgBox "Your Second name is not correct, Thanks."
```

```
    Exit Sub
```

```
End If
```

```
Message = "Your Name is : " & First_name & " " & Second_name  
&_
```

```
vbCrLf & " Are you sure ?" ' Define message.
```

```
Style = vbYesNo + vbCritical + vbDefaultButton2 ' Define buttons.
```

```
Title = "MsgBox Demonstration" ' Define title.
```

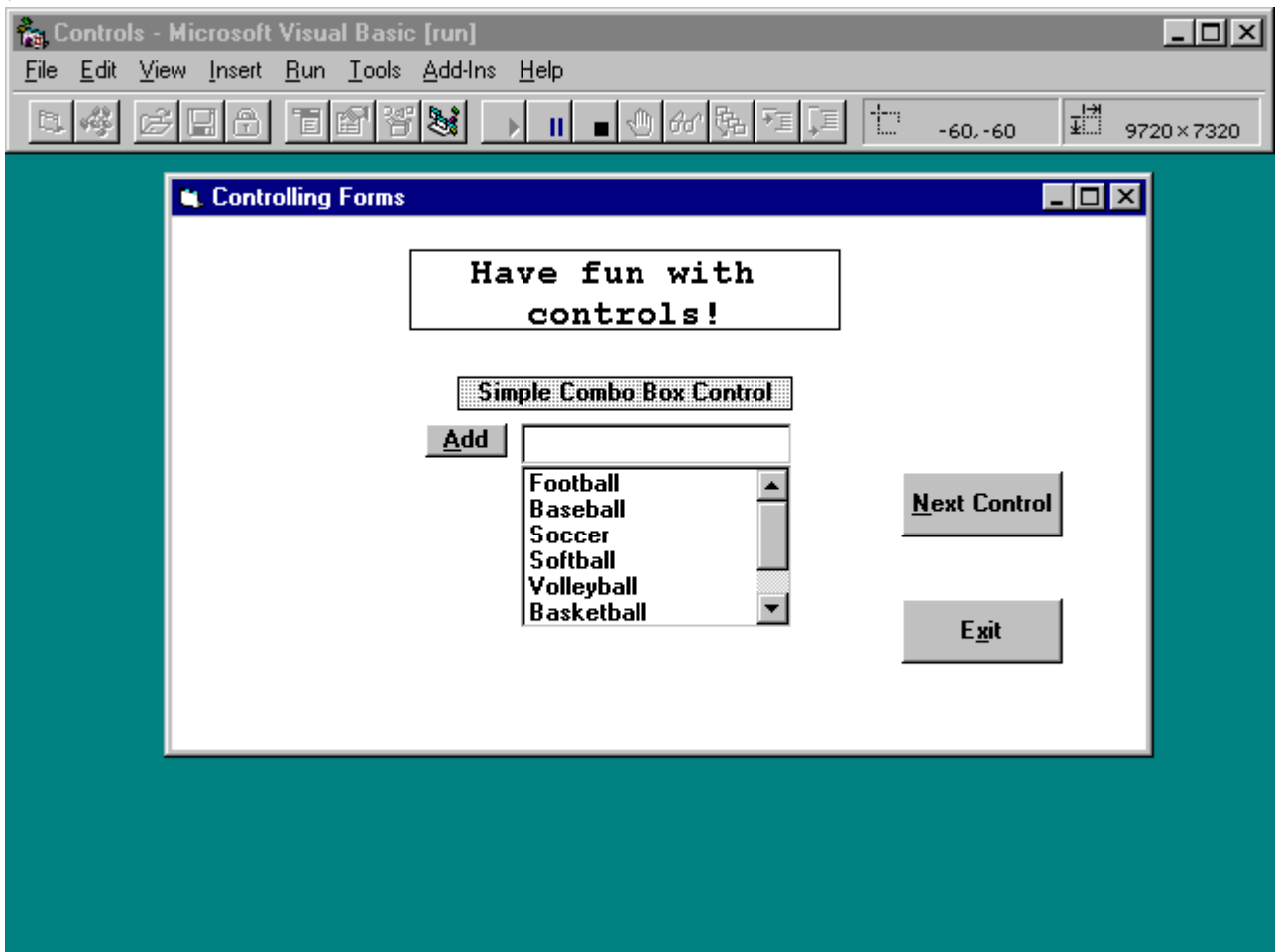
```
Response = MsgBox(Message, Style, Title)
```

```
If Response = vbYes Then ' User chose Yes.  
    MsgBox "Thank you"  
End If
```

97. Save your project with the name "week11_2" in your folder.
98. Run the program

During This Lab we want to Complete a project "Week11_3" to Use The CONTROLS.VBP application to demonstrates the simple combo box and shows how you can set up an application to add items to a list of values.

The main form look like this form



Analysis: The command button in Figure 11.8 is named cmdSimple, so clicking the command button executes the event procedure shown in Listing 11.3. Line 3 stores the combo box's Text property value to that combo box's list of items. The combo box will

not contain a user's entry in the upper data entry portion of the combo box until an `AddItem` method adds that entry to the list. The `Text` property always holds the current value shown in the data entry portion of the combo box, but the `AddItem` method must add that value to the list.

As soon as the user's entry is added, line 4 erases the data entry portion of the combo box. After all, the user's text will now appear in the lower listing portion of the combo box (thanks to line 3), so line 4 clears the data entry area for more input. In addition, line 5 sets the focus back to the combo box (the focus appears in the data entry area that line 4 cleared) so that the user is ready to add an additional item to the combo box.

The Timer Control

A timer control allows you to generate events at specified time intervals. For example, you could build your own version of the Windows Clock application by displaying the time in a label and using a timer control to update the display every second. Your application might look like the following:



Starting and stopping a timer control

A timer is started by setting the **Enabled** property to `TRUE` and giving the **Interval** property a value greater than 0.

The timer can be stopped while the application is running by setting the **Enabled** property to `FALSE` or setting the **Interval** property to 0.

Designing the Clock application

Start a new project and add two labels with Name property set to **lblTime** and **lblDate** respectively. Change the `FontName` for the labels to Courier New (a non-proportional font) and choose a suitable `FontSize` for each label. Change the caption of the form to **Clock**.

Add a Timer Control to the form. It doesn't matter where you put this control because it is invisible when the project is running.



Select the Properties window for the Timer Control and set Enabled to **True** and the Interval property to **1000**.

The units for the interval are milliseconds. With these settings, the code in the event `Timer1_Timer` will be executed approximately every second.

Add the following event procedure code and try out your application. `Private Sub`

```
Form_Load()  
    lblDate.Caption = Date  
End Sub  
  
Private Sub Timer1_Timer()  
    lblTime.Caption = Time  
End Sub
```

Scrolling the Scroll Bars

2. Save the project With week 11_3
3. Run the program

Week 14

Lab 1

During This Lab we want to Complete a project “Week12_1” to simulate a Data Control. The main form look like this form

The screenshot shows a window titled "Data Control demo" with a grey background. It contains several text input fields arranged vertically. The fields and their values are: Title (dBASE III : A Practical Guide), Year Published (1985), ISBN (0-0038307-6-4), PubID (469), Description (22.5), Notes (empty), Subject (empty), and Comments (0). At the bottom of the window, there is a data control component with a label "Data1" and navigation arrows.

99. Open project week12_1

100. Double Click on the Data control and format it as above.

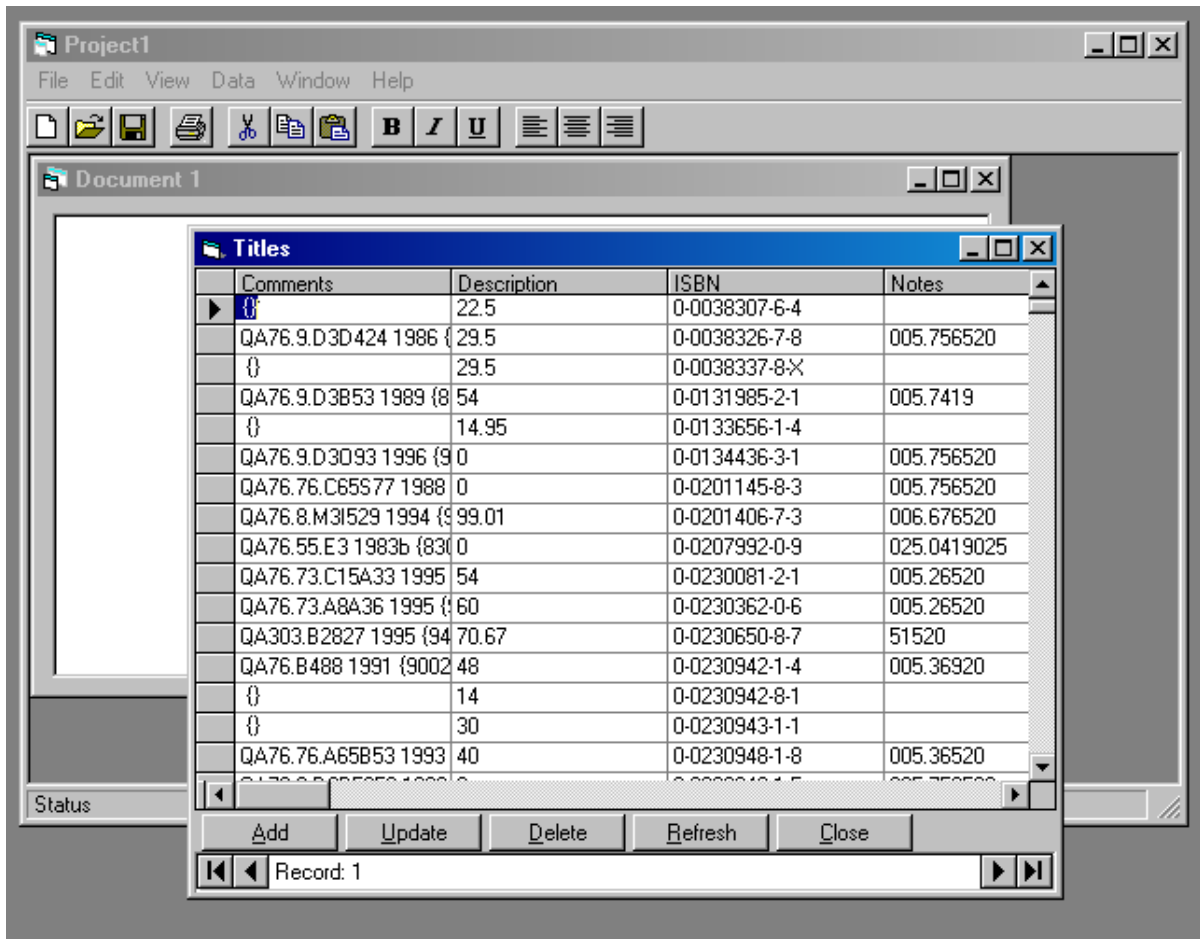
101. Adjust the Data control properties as follow :

Table For Data Control

Property	Value
DataBase Name	\\Programming\Samples\Week12\BIBLIO.MDB
RecordSource	Titles

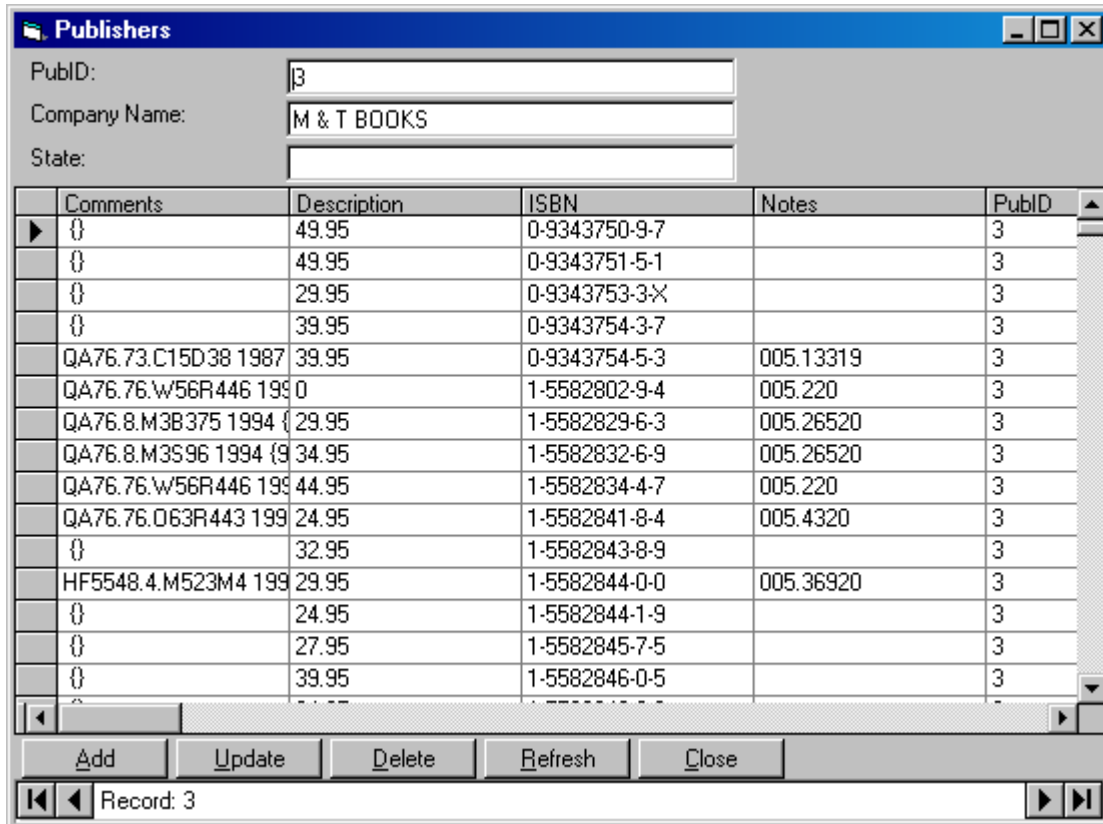
102. For the textboxes adjust DataSource "Data1" and the textbox DataField to its appropriate field as in above.
103. Save your project with the name "week13_1" in your folder.
104. Run the program

During This Lab we want to Complete a project "Week12_2" to simulate a using VB Application Wizard to create data form. The main form look like this form



105. Create New Project.
106. Select the VB Application Wizard
107. Click Next until to start create the data form creation and select "Access" and specify the Data Base name. Select the "Grid (Datasheet)" and select the Record Source is "Title" and select all Available Fields .
108. Save your project with the name "week12_2" in your folder.
109. Run the program

During This Lab we want to Complete a project "Week13_1" to simulate a database using Data Form Wizard to create Master Detail data form. The main form look like this form



1. Create New Project.
2. Select the Standard EXE
3. Create a data form with Data Form Wizard with this properties :

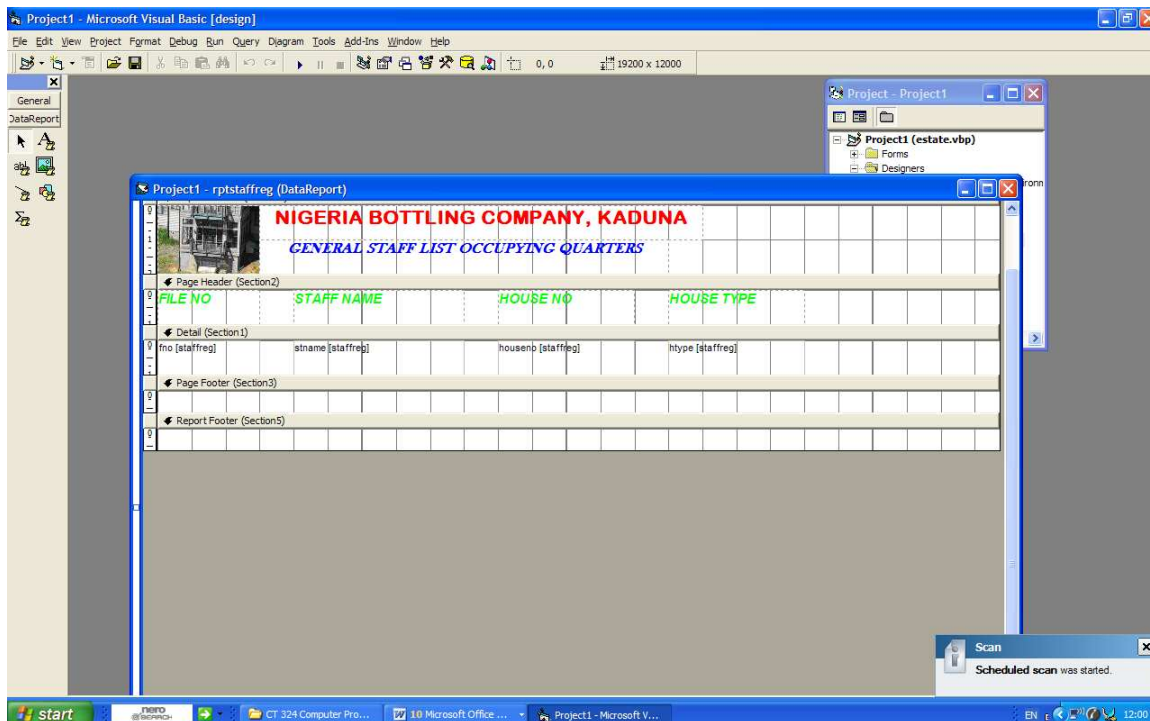
DataBase Name	\\Programming\Samples\Week12\BIBLIO.MDB
Layout	Master Details
Master Table	Publishers
Detail table	Titles
Primary Key	PubID

4. Save your project with the name "week13_1" in your folder.
5. Run the program

Week 15

Lab 1

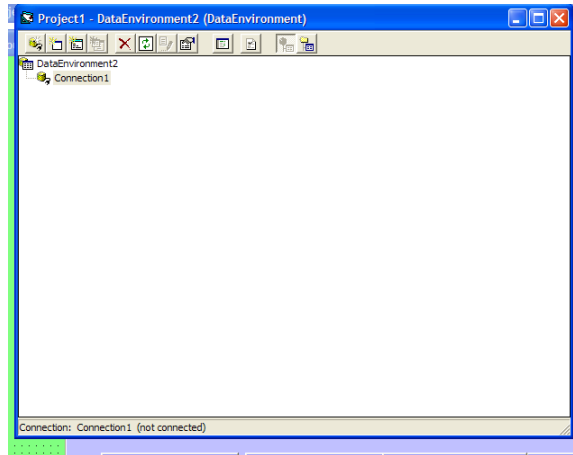
During This Lab we want to Complete a project “Week14_1” to simulate a Data report Control as shown below From A Database named Mystock.



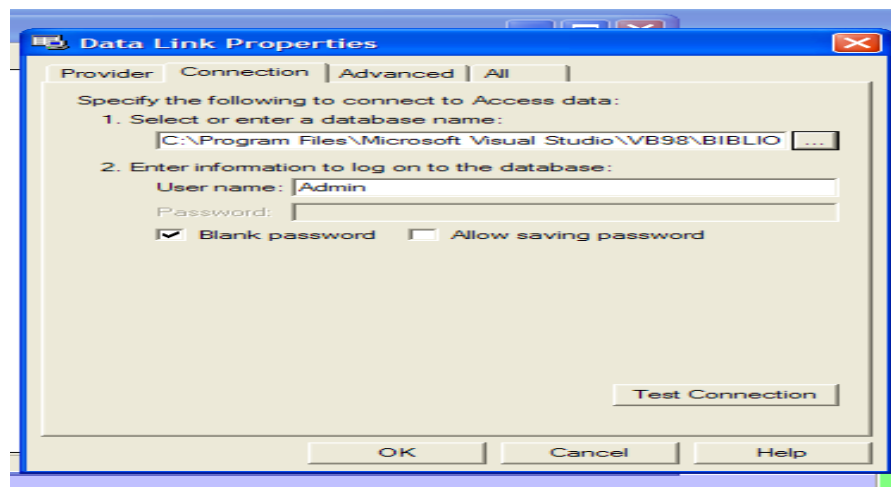
Open the database form that you want to generate report for

1. On the Menu bar click project
2. Select Add data environment

The Data environment window is displayed as shown below:

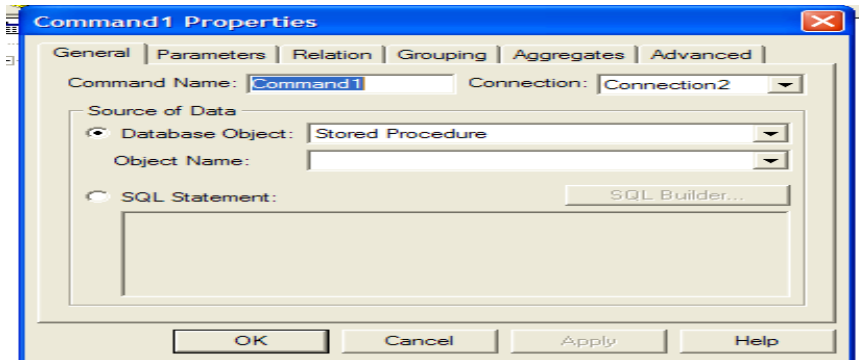


3. Right click on connection 1
4. Select properties in the Data link pup-up menu windows displayed
5. Specify the provide or the Database engine. By selecting 3.51 OLE DB provide for the Database Structure created within vb environment or using MS Access '97
6. Click next, this takes you to connector Data link Properties windows



7. Select or Enter a database name
8. Click Test connector, to be sure you can successfully connected
9. Click OK. This takes you back to the Data environment window
10. Create the logical view of your report i.e. Table or fields that you need in your database. To do this;
 - Click on connector

- Click on Add command Icon on the Data environment tool bar, Command 1 is created
- Right Click the Command 1 created
- Click on property from the PUP-UP menu displayed
- Command properties window is displayed

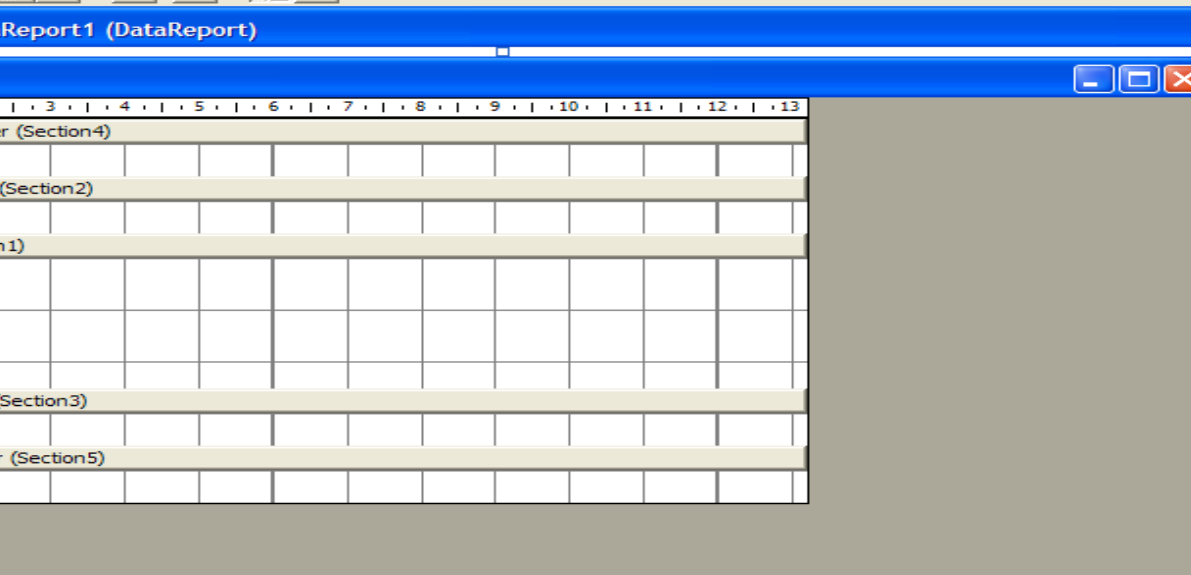


- Specify the command name e.g. (mystock)
- Select Database Object
- Select Table
- Select Object name
- Select mytable
- Click apply
- Click OK

11. Now create the Report format as follows:

Click project -

Click Add Data Report, the Data Project Properties is displayed -



Click Report Header for the Heading that appears once in the

Report eg NIGERIA BOTTLING COMPANY KADUNA

Click Page Header for the Column Title

Click Detail Section for Fields in the Report

Go To Properties window, select Data Source

Select data source, eg Destock

Click Data Member, select Command Object for the Data

Members i.e. (mdstock)

Right click any area within the Data report window

From the PUP-UP displayed, select retrieve structure, to link our

report to the command structure created earlier in the Data

environment

Click Yes

Select the band (i.e. the Page Header)

Double Click label on the tool bar

Set the properties e.g.

Change Caption to “STOCK REPORT”.

- Click on Details report
- Double Click the Report Text box

- Click Unbound

- a. Click Data Member in Properties Text box
- b. Select (cmdstock)
- c. Select Data field Itemnum
12. Give your Data report a name e.g. drpstock
13. Set caption for the windows
14. Set window state to Maximise
15. Save the project to Update all the work
16. Then Go back to the interface form
17. Double click the Command Report

18. Type the program statements as shown below

```
Private Sub Cmd_report_Click()
```

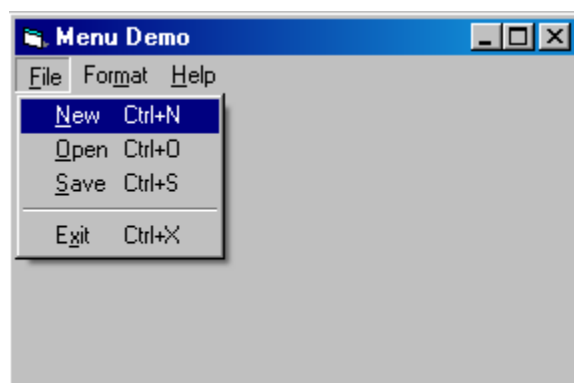
```
drpStoc.ref
```

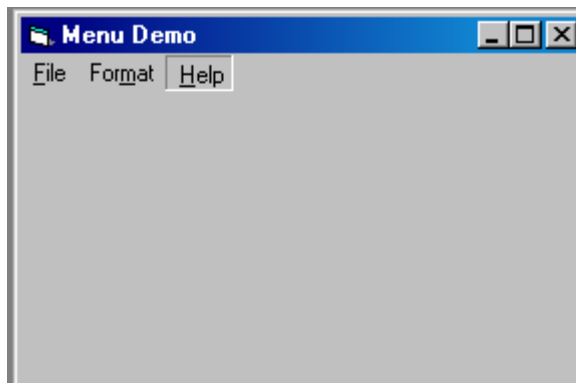
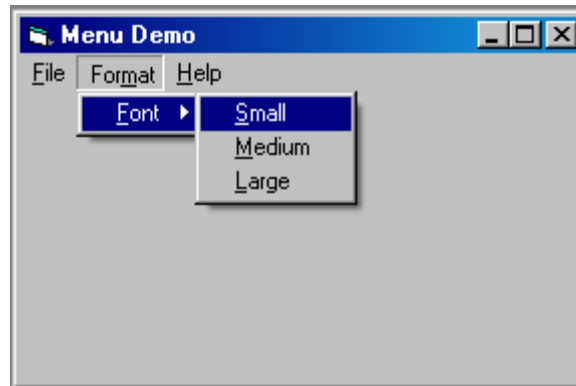
```
drpStock.Show
```

```
End Sub
```

- Run the Program, then Click on Report Command, the report is displayed
- Click Print Icon on the report to Print the report on paper

During This Lab we want to Complete a project “Week15_1” to simulate a menu. The main form look like this form





- 110. Open project week11_1
- 111. Use Menu Editor to create menu as in the following table .

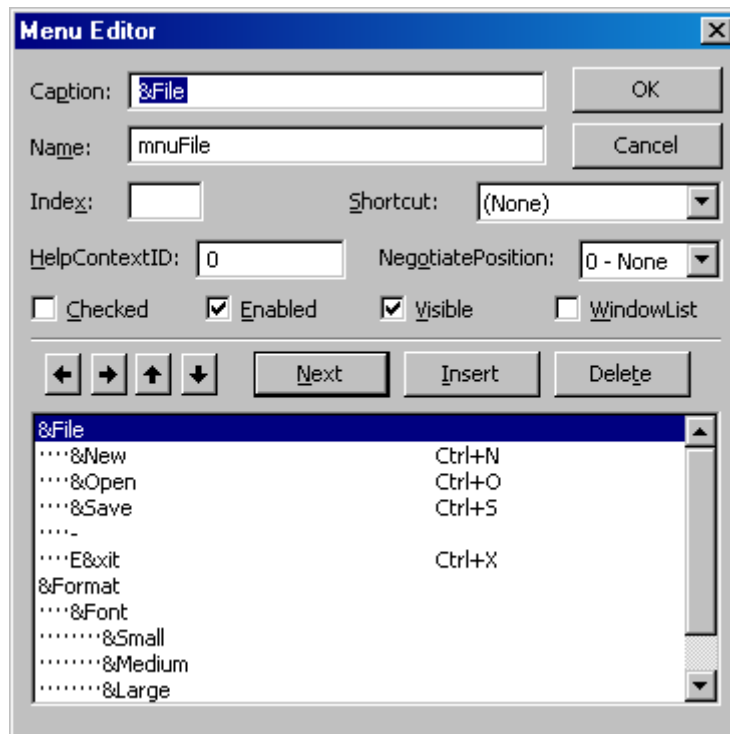


Table For main menu

Caption	Name	Short cut
File	MnuFile	Alt + F
Format	MnuFormat	Alt + M
Help	MnuHelp	Alt + H
New	MnuFileNew	Ctrl + N
Open	MnuFileOpen	Ctrl + O
Save	MnuFileSave	Ctrl + S
Exit	MnuFileExit	Ctrl + X
Font	MnuFormatFont	
Small	MnuFormatFontSmall	
Medium	mnuFormatFontMedium	
Large	mnuFormatFontLarge	

112. Write this code for New option

MsgBox "You Selected New menu Option "

113. Write this code for New option

MsgBox "You Selected New open Option "

114. Save your project with the name "week15_1" in your folder.

115. Run the program