**Class (A) Group (A)**

**Q 1\ (A)** What is the kinds of combo boxes?

 **(B)** Convert the Do / While loop to For-statement:

Inti=10

Do

Inti=inti-2

Loop While inti >0

 **Solution:-**

For i = 10 to 1

i= i-2

Next

**Q 2\** Design the program contain one form, two Text Box and Frame that grouped in it two Option Buttons, Write code:

1. When select **Option1** find the string in Text1 put in Text2 and then change size to 24 and italic.
2. When select **Option2** exit from the program.

**Solution:-**

Private Sub Form\_Activate()

Option1.Value = False

Option2.Value = False

End Sub

………………………………………………

Private Sub Option1\_Click()

If Option1.Value = True Then

Text2.Text = Text1.Text

Text2.FontSize = 24

Text2.FontItalic = True

End If

End Sub

……………………………………………….

Private Sub Option2\_Click()

If Option2.Value = True Then

End

End If

End Sub

**Q3\** A standard project with one Form, Combo Box and Text Box. Frame that grouped into three options its caption is (Add item, Clear Combo Box, Add new item). Write the code of:

* First option **add** the string into Combo Box.
* Second option **clear** the Combo Box from any item.
* Third option **add new** item in Combo Box at run time and print it on the Form.

**Solution:-**

Private Sub Form\_Activate()

Option1.Value = False

Option2.Value = False

Option3.Value = False

End Sub

…………………………………………………

Private Sub Option1\_Click()

If Option1.Value = True Then

Combo1.AddItem "AAAA"

End If

End Sub

…………………………………………………….

Private Sub Option2\_Click()

If Option2.Value = True Then

Combo1.Clear

End If

End Sub

………………………………………………

Private Sub Option3\_Click()

If Option3.Value = True Then

Dim x As String

x = Combo1.Text

Combo1.AddItem x

End If

End Sub

**Class (A) Group (B)**

**Q 1\** A standard project with one Form, ListBox, Texbox. Frame that grouped into three Options its caption is (Add item, Remove selected item, Find content) .Suppose the ListBox contain seven items. Write the code of:

* First option **Add** the string from Textbox into ListBox
* Second option **Remove the selected item** from ListBox.
* Third option **Find the content of second item** in ListBox and display in textbox1.

**Solution:-**

Private Sub Form\_Activate()

Option1.Value = False

Option2.Value = False

Option3.Value = False

End Sub

…………………………………………..

Private Sub Option1\_Click()

If Option1.Value = True Then

List1.AddItem Text1.Text

End If

End Sub

……………………………………………

Private Sub Option2\_Click()

If Option2.Value = True Then

List1.RemoveItem (0)

End If

End Sub

………………………………………….

Private Sub Option3\_Click()

If Option3.Value = True Then

Dim x As String

x = List1.List(1)

Text1.Text = x

End If

End Sub

**Q 2\** What is Combo Box Methods with give example?

**Q 3\** Design the program in vb contains **Two Forms**. The **Form1** contains **Frame** that grouped in it **Two Check boxes.** Write the code:

1-When select **Check1**; Display Massage box contains Two Commands (**Yes and No**), check the selection:

1. When select **Yes;** **Hidden** Form1 and **appear** Form2.
2. When select **No; Change** the **Caption** of Form1 to **“welcome”** and its **backcolor** to **blue**.
3. When select Check2; Exit from the program.

**Solution:-**

Private Sub Check1\_Click()

If Check1.Value = 1 Then

Dim x As Integer

x = MsgBox("click to check", 4, "check the selection")

If x = 6 Then

Form1.Hide

Form2.Show

Else

Form1.Caption = "welcome"

Form1.BackColor = vbBlue

End If

End If

End Sub

…………………………………………………….

Private Sub Check2\_Click()

If Check2.Value = 1 Then

End

End If

End Sub

**Class (B) Group (A)**

**Q1\** What are the differences between Option Button and Checkbox?

**Q 2\** Design the program in vb contains one Form, List box, Tex box. Frame that grouped into three options its caption is (Add item, Clear list, Find number item). Suppose the list box contain six items. Write the code of:

 First option -click –event procedure to **add the string** into list box

 Second option -click –event procedure to **clear the list box from any string**

 Third option -click –event procedure to **find the number of items** in list box and

 Put the result in textbox.

**Solution:-**

Private Sub Form\_Activate()

Option1.Value = False

Option2.Value = False

Option3.Value = False

End Sub

………………………………………..

Private Sub Option1\_Click()

If Option1.Value = True Then

List1.AddItem "gggg"

End If

End Sub

……………………………………………

Private Sub Option2\_Click()

If Option2.Value = True Then

List1.Clear

End If

End Sub

………………………………………………..

Private Sub Option3\_Click()

If Option3.Value = True Then

Dim x As Integer

x = List1.ListCount

Text1.Text = x

End If

End Sub

**Q3\** Write the program to enter the age of student and then assigns a student's grade to the label on the form depend on the his/her age .The code checks make sure that the student is not too young to be going to school. Attach this code to the command buttons and use select case to determine the age of the students. If the age is equal 5, the title label becomes Kindergarten, if the age is equal **6** the title label becomes1st Grade". If the age is equal 7 the title label becomes 2nd Grade. If the age is equal 8 the title label becomes 3rd Grade.

**Solution:-**

Private sub command –click ()

Select Case intAge

 Case 5: label1.Caption = "Kindergarten"

 Case 6: label1.Caption = "1st Grade"

 Case 7: label1.Caption = "2nd Grade"

Case Else: label1.Caption = "3rd Grade"

End Select

End sub

**Class (B) Group (B)**

**Q 1\** A standard project with one **Form**, **ListBox1** andTwo**Command Buttons**,write code:

1. In **Form-load** event**,** adding the following items **(BackColor, Display string, Remove string)** into **ListBox1.**
2. When select **Command1**, checkthe selected item from a **ListBox1 :**
3. When select the **1st** item, change **Back color** of **Form1** into **Red.**
4. When select the **2nd** item,display string **"Microsoft Windows"** of **name for Form1.**
5. When select the **3rd** item, **Remove first item.**
6. When select **Command2, Quit** the program**.**

**Solution:-**

Private Sub Form\_load()

List1.AddItem "BackColor"

List1.AddItem "Display string"

List1.AddItem "Remove string"

End Sub

………………………………………………..

Private Sub Command1\_Click()

If List1.Selected(0) = True Then

Form1.BackColor = vbRed

ElseIf List1.Selected(1) = True Then

Form1.Caption = "Microsoft Windows"

Else

List1.RemoveItem (0)

End If

End Sub

………………………………………………….

Private Sub Command2\_Click()

End

End Sub

**Q 2\** Design the program in vb contain one Form, Combo box Command 1 and Command2, change the caption of Command1 and command2 to appropriate the action of them, then write the code of :

1. Form –load –event procedure for adding the following items (String, Clean, fore color) in the combo box.
2. Command1 – click - event that allows the user to **check the selection** of item from a Combo box.
* When the user select the 1st item, **display string** "visual basic" on the form.
* when the user select 2nd item **clean** the form from any string
* When the user select 3rd item **change the fore color** of form into vbred.
1. Command2-click –event procedure to **exit** from the program.

**Solution:-**

Private Sub Form\_load()

Combo1.AddItem "String"

Combo1.AddItem "Clean"

Combo1.AddItem "fore color"

End Sub

…………………………………………………

Private Sub Command1\_Click()

If Combo1.ListIndex = 0 Then

Form1.Print "visual basic"

ElseIf Combo1.ListIndex = 1 Then

Form1.Cls

Else

Form1.ForeColor = vbRed

End If

End Sub

……………………………………..

 Private Sub Command2\_Click()

End

End Sub

**Q3\ What are the differences between combo box and list box**

**Class (C) Group (A)**

**Q 1\** What are the differences between Do until/Loop and Do While/Loop?

**Q2\** A standard project with Two Forms; The Form1 contains Listbox and two Check boxes, write code:

1. In From–load event, **add** the items (move Form, change Title) in the Listbox1.
2. When select Check1, check the selection of Listbox1 items:

a- When select the 1st item; **hidden** Form1 and **appear** Form2.

b- When select the 2nd item; **Change** Title of Form1 to “welcome” and Backcolor to Red.

1. When select Check2, Quit the program.

**Solution:-**

Private Sub Form\_load()

List1.AddItem "move Form"

List1.AddItem "change Title"

 End Sub

……………………………………

 Private Sub Check1\_Click()

If List1.Selected(0) = True Then

Form1.Hide

Form2.Show

Else

Form1.Caption = "welcome"

Form1.BackColor = vbRed

End If

End Sub

……………………………..

Private Sub Check2\_Click()

End

End Sub

**Q 3\** A standard project with one Form, ListBox, Textbox and ComboBox. Frame that grouped into three Options its caption is (Add item, Move selected item, Find & Print). Suppose the ListBox contain **five** items and the ComboBox contain **eight** items. Write the code of:

* Option1-click–event; Add the string from Textbox into ListBox.
* Option2-click–event; Add the selected item from ListBox to ComboBox and Remove it from ListBox.
* Option3–event; Find the content of six item in ComboBox and print in the textbox.

**Solution:-**

Private Sub Form\_Activate()

Option1.Value = False

Option2.Value = False

Option3.Value = False

End Sub

………………………………………….

Private Sub Option1\_Click()

If Option1.Value = True Then

List1.AddItem Text1.Text

End If

End Sub

………………………………………………..

Private Sub Option2\_Click()

If Option2.Value = True Then

Combo1.AddItem List1.List(0)

List1.RemoveItem (0)

End If

End Sub

………………………………………………

Private Sub Option3\_Click()

If Option3.Value = True Then

Dim x As String

x = Combo1.List(6)

Text1.Text = x

End If

End Sub

**Class (C) Group (B)**

**Q1\** Design the program in vb contain one Form ,Listbox, Command1, change the Caption of Command1 to" select item". Write the code for adding the items (computer, monitor, mouse) in the Listbox, and then write the code of Command1 to display Msgbox contain three Commands Yes, No, Cancel, when the user select **Yes command** add the items (processor, hard disc) into Listbox, when the user select **No command**, find the number of items in the Llistbox and put the result into Textbox and when the user select **Cancel command** , remove item from Llistbox.

**Solution:-**

Private Sub Form\_Load()

List1.AddItem "computer"

List1.AddItem "monitor"

List1.AddItem "mouse"

End Sub

………………………………………………….

Private Sub Command1\_Click()

Dim myMsg, x As Integer

myMsg = MsgBox("Click to select", vbYesNoCancel, "select Message")

If testMsg = 6 Then

List1.AddItem "processor"

List1.AddItem "hard disc"

ElseIf myMsg = 7 Then

x = List1.ListCount

Text1.Text = x

Else

List1.RemoveItem (0)

End If

End Sub

**Q 2\** Design the program in visual basic contain one Form , Textbox1 ,Textbox2 and Frame grouped in it three Command Buttons its caption (Enter the average , Find result , exit). Write the code of:

1. When select Command1; **Enter** the value of average and the name of student by using inputbox.
2. When select Command2; Find the result of student depending on the check the value of average as following:

a - If the average is (90-100); put "excellent” word in textbox1 and the name in the textbox2.

b- If the average is (80-89); put "very good” word in textbox1 and the name in thetextbox2.

C-Else Display Massage Box “Please, Enter average and name for Student”.

1. When select Command3; Exit from the program.

**Solution:-**

Dim av As integer

Dim n As String

Private Sub Command1\_Click()

Dim a As Integer

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

a = InputBox("enter the average", "average box", , 1500, 5000)

Text1.Text = n

Text2.Text = a

End Sub

…………………………………………………………….

Private Sub Command2\_Click()

Dim j As String

If (av >= 90 And av <= 100) Then

Text1.Text = "excellent"

Text2.Text = n

ElseIf (av >= 80 And av <= 89) Then

Text1.Text = "very good"

Text2.Text = n

Else

j = MsgBox("Please Enter average and name for Student", vbOK, "error")

End If

End Sub

…………………………………………………..

Private Sub Command3\_Click()

End

End Sub

**Q3\** What are the differences between Do/Loop until and Do/Loop While?