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

**Q 1\** Design the program in vb contain one form1, text box1 and vertical scroll bar that represent the range of number from (495 to 895) and when the user click arrow of scroll the amount of decrement and increment is 100. Write the code of:

1- Form load-event to set the properties of scroll bar that represent the information of it.

2- Vscroll change-event to set the height property of text box equals the value of scrollbar.

**Solution:-**

Private Sub Form\_Load()

VScroll1.Min = 495

VScroll1.Max = 895

VScroll1.SmallChange = 100

End Sub

…………………………………………..

Private Sub VScroll1\_Change()

Text1.Height = VScroll1.Value

End Sub

**Q 2\** Design the program in vb contains one form, text box, drive list box, dir list box, file list box and image box. Write the codes of drive, dir list box and text box to display only files that have jpg extension and then write the code of file list box to load the file that selected from it to image box.

**Solution:-**

Private Sub Dir1\_Change()

File1.Path = Dir1.Path

End Sub

…………………………………………………..

Private Sub Drive1\_Change()

Dir1.Path = Drive1.Drive

End Sub

…………………………………………..

Private Sub File1\_Click()

Dim a As String

Text1.Text = a

Image1.Stretch = True

Image1.Picture = LoadPicture(a)

End Sub

……………………………………………..

Private Sub Text1\_Change()

File1.Pattern = Text1.Text

End Sub

**Q3\** Rewrite the following nested If statement using a single If with a logical operator:

If (M = 3) Then

If (P = 4) Then

TestIt = "Yes"

End If

End If

**Solution:-**

If (M = 3) and (P = 4) then

TestIt = "Yes"

End If

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

**Q 1\** Design the program in VB contain one Form1, picture box, Vertical scroll and Horizontal scroll bar . Both Scroll Bar represent the rang of number from (700 to 900) ,and when the user click Arrow of both Scroll bar the amount of decrement or increment is 120 and when click the Shift area in both scroll the amount of decrement or increment is 160.

Write the code of from –event procedure to set the properties of both Scroll Bar that represent the information of them.

Write the code of Vscroll to set the Height property of picture box equal the Value-of Scroll bar

Write the code of Hscroll to set the width property of picture box equal the Value of scroll bar

**Solution:-**

Private Sub Form\_Load()

VScroll1.Min = 700

VScroll1.Max = 900

VScroll1.SmallChange = 120

VScroll1.LargeChange = 160

HScroll1.Min = 700

HScroll1.Max = 900

HScroll1.SmallChange = 120

HScroll1.LargeChange = 160

End Sub

…………………………………………………….

Private Sub HScroll1\_Change()

Picture1.Width = HScroll1.Value

End Sub

……………………………………………

Private Sub VScroll1\_Change()

Picture1.Height = VScroll1.Value

End Sub

**Q 2\** Write the codes for text box displaying the only files that have "gif" extension in File list box. Then write the code of File list box to load the file that selected from it to Image box and make the Image box fit the Image file.

**Solution:-**

Private Sub File1\_Click()

Dim a As String

Text1.Text = a

Image1.Stretch = True

Image1.Picture = LoadPicture(a)

End Sub

……………………………………………..

Private Sub Text1\_Change()

File1.Pattern = Text1.Text

End Sub

**Q 3\** What is wrong with this If statement?

If (intA < 1) And (intC >= 8)

lblDraft.Caption = "Overdrawn"

Else

lblDraft.Caption = "Underdrawn"

End Else

**Solution:-**

If (intA < 1) And (intC >= 8) then

lblDraft.Caption = "Overdrawn"

Else

lblDraft.Caption = "Underdrawn"

End if

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

**Q1\** A standard project with one Form, one List box, one Combo box, one Label and Three Command Button, write code:

1. When click Command1, Add 25 degrees of students into Listbox1
2. When click Command, Sum of all degrees from Listbox1 and Print into Label1
3. When click Command3, Move all degrees from Listbox1 into Combobox.

**Q 2\** A standard project with one Form, one command Button and one Label, write code:

When Select Command1; Find the Odd numbers for (30-65) numbers , Print it on Form, Print the Count of Odd numbers in Label1 By Using Do Until/Loop Cycle.

**Q3\** A standard project with one Form, Combobox1, Command1 and Command2 write code:

1. In Form - load event, adding the following items (FontColor, Display string, Backcolor)into Combobox1.
2. When select Command1, check the selected item from a Combobox1:
3. When select the 1st item, change Font color of Form1 into Blue.
4. When select the 2nd item, display string "Visual Basic" on title of Form1.
5. When select the 3rd item, change Back color of Form1 into White.

3- When select Command2, Quit the program.

……………………………………………………………………………………

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

**Q 1\** What is wrong with the following If statement?

If (A < 1) And (C >= 8)

lblName.Text = "Overdrawn"

Else

lblName.Text = "Underdrawn"

End Else

End If

**Solution:-**

If (A < 1) And (C >= 8) then

lblName.caption = "Overdrawn"

Else

lblName.caption = "Underdrawn"

End If

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**Q 2\** Design the program in vb contain one Form1, Picture box1, Picture box2, Command1, Command2 and Vertical scroll box. The scroll bar represent the numbers from (1575 to 2775) and when move the scroll arrow the amount of increment or decrement is 300. Change the caption of Command1 and Command2 to appropriate the action of them .write the code of:

1. Form load –event procedure to set the properties of scroll bar that represent the information of it.
2. Vscroll-change –event to set width property of picture box equal the value of scroll bar
3. Command1 –click –event to load the image from ("c\my document \ my picture\water.jpg") into picture box1 and then load the image from picture box1 to picture box2
4. Command2\_ click –event procedure to clear the picture box1 from any image.

**Solution:-**

Private Sub Form\_Load()

VScroll1.Min = 1575

VScroll1.Max = 2775

VScroll1.SmallChange = 300

End Sub

……………………………………………….

Private Sub VScroll1\_Change()

Picture1.Width = VScroll1.Value

End Sub

………………………………………………

Private Sub Command1\_Click()

Picture1.Picture = LoadPicture("c\my document \ my picture\water.jpg")

Picture2.Picture = Picture1.Picture

End Sub

……………………………………………

Private Sub Command2\_Click()

Picture1.Cls

End Sub

**Q3\** Design the program in vb contains Form1, Imagebox, Listbox and Command Write the code for adding the items (Resize imagebox, Display picture, Clear picture) in the Listbox, and then write the code of:

1. In Command1\_click event , to check the selection of items in Listbox :

**A -**When select the 1st item; Make the imagebox resize to fit the size of picture.

**B -** When select the 2nd item; Load the picture from ("c\my document \ my picture \ Sunset.jpg”) into image box1.

**C -** When select the 3rd item; Clear the imagebox from any picture.

**Solution:-**

Private Sub Form\_Load()

List1.AddItem "resize image box"

List1.AddItem "display picture"

List1.AddItem "clear picture"

End Sub

…………………………………………………..

Private Sub Command1\_Click()

If List1.Selected(0) = True Then

Image1.Stretch = False

ElseIf List1.Selected(1) = True Then

Image1.Picture = LoadPicture("c\my document \ my picture \ Sunset.jpg")

Else

Image1.picture=loadpicture()

End If

End Sub

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

**Q 1\** A standard project with one Form, Imagebox, three OptionButton Its Caption (Display picture, Resize Imagebox, Clear picture), write code:

A - When select Option1; Load the picture from ("d:\ my picture \ Winter.jpg”) into imagebox1.

B - When select Option2; resize the imagebox1 to fit the size of picture.

C - When select Option3; Clear the imagebox1 from any picture.

**Solution:-**

Private Sub Form\_activate()

Option1.Value = False

Option2.Value = False

Option3.Value = False

End Sub

………………………………………………..

Private Sub Option1\_Click()

Option1.Value = True

Image1.Picture = LoadPicture("d:\ my picture \ Winter.jpg")

End Sub

………………………………………………………………….

Private Sub Option2\_Click()

Option2.Value = True

Image1.Stretch = False

End Sub

………………………………………………………..

Private Sub Option3\_Click()

Option3.Value = True

Image1.Picture = LoadPicture()

End Sub

**Q2\**Design the program in vb contain one Form1, Picture box1, Picture box2, Command1, Command2 and Vertical scroll box. The scroll bar represents the numbers from (1575 to 2775) and when move the scroll arrow the amount of increment or decrement is 300. Change the caption of Command1 and Command2 to appropriate the action of them .write the code of:

1. Form load –event procedure to set the properties of scroll bar that represent the information of it.
2. Vscroll-change –event to set width property of picture box equal the value of scroll bar.
3. Command1 –click –event to load the image from ("c\my document \ my picture\water.jpg") into picture box1 and then load the image from picture box1 to picture box2.
4. Command2\_ click –event procedure to clear the picture box1 from any Image

**Solution:-**

Private Sub Form\_Load()

VScroll1.Min = 1575

VScroll1.Max = 2775

VScroll1.SmallChange = 300

End Sub

……………………………………………….

Private Sub VScroll1\_Change()

Picture1.Width = VScroll1.Value

End Sub

………………………………………………

Private Sub Command1\_Click()

Picture1.Picture = LoadPicture("c\my document \ my picture\water.jpg")

Picture2.Picture = Picture1.Picture

End Sub

……………………………………………

Private Sub Command2\_Click()

Picture1.Cls

End Sub

**Q 3\** A standard project with one Form, Label1 and Frame that grouped in it two Options it's Caption (Autosize, Exit):

1- Write the code Option1 to display output Message contain two commands (Yes and No) and then check selection:

1. When select Yes, change the Autosize of Label1 to make it expand horizontal to hold the entire Caption.
2. When select No, change the Caption of Label1 to Computer.
3. The code of Option2 is, exit from the program.

**Solution:-**

Private Sub Form\_activate()

Option1.Value = False

Option2.Value = False

End Sub

………………………………………………

Private Sub Option1\_Click()

Dim a As String

Option1.Value = True

a = MsgBox("choose", vbYesNo, "select")

If a = 6 Then

Label1.AutoSize = True

Else

Label1.Caption = "computer"

End If

End Sub

………………………………………….

Private Sub Option2\_Click()

Option2.Value = True

End

End Sub

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

**Q1\** Design the program in vb contains one Form, List box, Textbox. Frame that grouped into three options its caption is (Add item, Remove, Find number). Suppose the list box contain six items. Write the code of:

option1-click event procedure to Add the string from Textbox into list box

option2-click event procedure to Remove the second item from list box.

option3-click event procedure to find the number of items in listbox and print it in form.

**Solution:-**

Private Sub Form\_activate()

Option1.Value = False

Option2.Value = False

Option3.Value = False

End Sub

…………………………………………………

Private Sub Option1\_Click()

Option1.Value = True

List1.AddItem Text1.Text

End Sub

…………………………………………………..

Private Sub Option2\_Click()

Option2.Value = True

List1.RemoveItem (1)

End Sub

…………………………………….

Private Sub Option3\_Click()

Dim m As Integer

Option3.Value = True

m = List1.ListCount

Print m

End Sub

**Q 2\** Design the program in VB contain one Form1 ,picture box , Drive list box , Dir list box ,file list box , Vertical scroll and Horizontal scroll bar . Both Scroll Bar represent the rang of number from (300 to 500), and when the user click Arrow of both Scroll bar the amount of decrement or increment is 115 and when click the Shift area in both scroll the amount of decrement or increment is 135.

Write the codes for displaying the only files that have "gif" extension in File list box .Then write the code of File list box to load the file that selected from it to picture box and make the picture box fit the Image file.

Write the code of from –event procedure to set the properties of both Scroll bars that represent the information of them.

Write the code of Vscroll to set the Height property of picture box equal the value- of Scroll bar

Write the code of Hscroll to set the width property of picture box equal the Value of scroll bar

**Solution:-**

Private Sub Form\_Load()

VScroll1.Min = 300

VScroll1.Max = 500

VScroll1.SmallChange = 115

VScroll1.LargeChange = 135

HScroll1.Min = 300

HScroll1.Max = 500

HScroll1.SmallChange = 115

HScroll1.LargeChange = 135

End Sub

…………………………………………………….

Private Sub HScroll1\_Change()

Picture1.Width = HScroll1.Value

End Sub

……………………………………………

Private Sub VScroll1\_Change()

Picture1.Height = VScroll1.Value

End Sub

………………………………………………….

Private Sub File1\_Click()

Dim a As String

Text1.Text = a

Image1.Stretch = True

Image1.Picture = LoadPicture(a)

End Sub

……………………………………………..

Private Sub Text1\_Change()

File1.Pattern = Text1.Text

End Sub

**Q3\** Rewrite the following nested If statement using a single If with a logical operator:

If (A > 3) Then

If (B > 10) Then

lblAns.Caption = "Yes"

End If

End If

**Solution:-**

If (A > 3) and (B > 10) Then

lblAns.Caption = "Yes"

End If