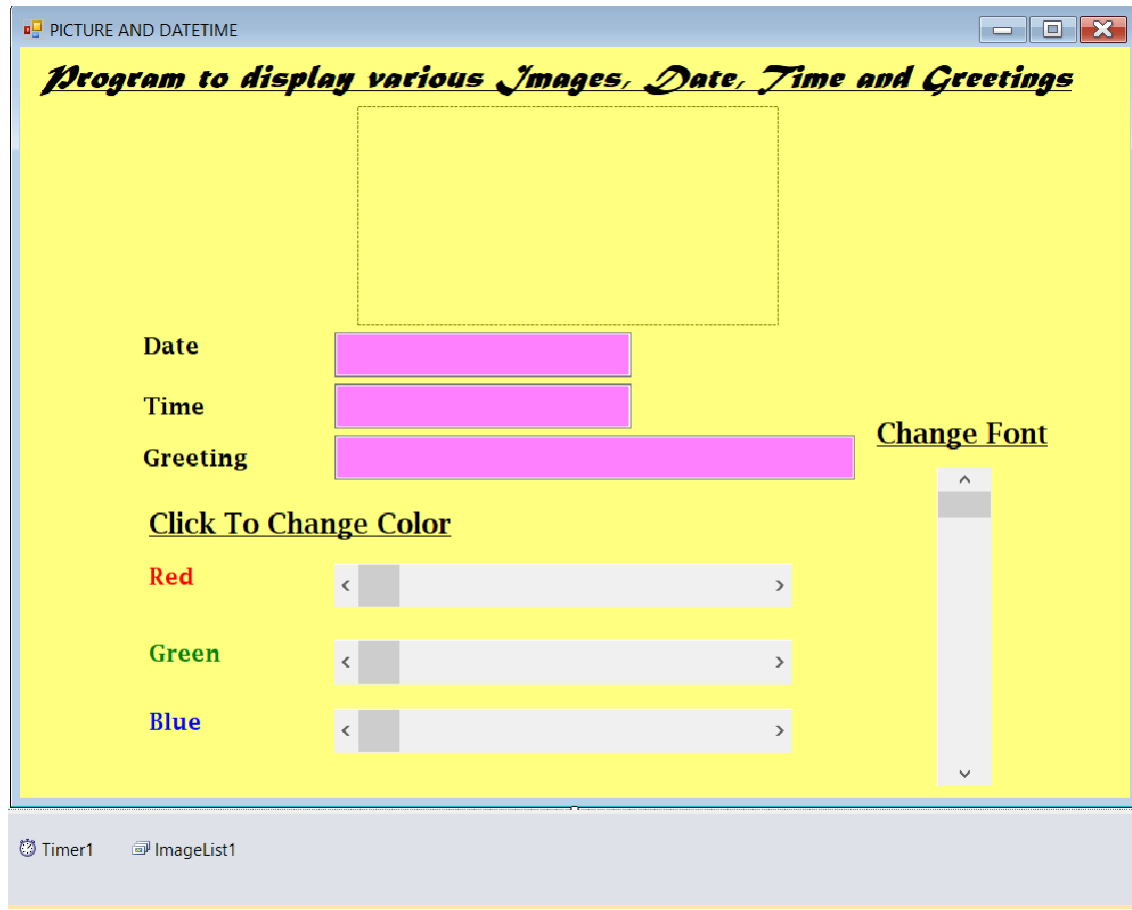


5. Design a VB interface containing
 - a. A picture box whose picture should be changed every 5 second (use 5 pictures).
 - b. Textboxes to display date & time and day greeting based on time. Time has to be changed every second automatically.
 - c. Use scrollbars to change font size and background color (RGB) of the textbox that shows greeting. [Use timer, scrollbars]

Design:



Source Code:

Public Class frmptime

Private Sub frmptime_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load

TextBox1.Text = Today

TextBox2.Text =

TimeOfDay Dim t As

Integer

t = Date.Now.ToString("HH")

If (t >= 1 And t < 12) Then

TextBox3.Text = "GOOD MORNING"

ElseIf (t >= 12 And t < 16) Then

TextBox3.Text = "GOOD AFTERNOON"

ElseIf (t >= 16 And t < 20) Then

TextBox3.Text = "GOOD EVENING"

Else

TextBox3.Text = "GOOD NIGHT"

End If

```
Timer1.Start()
```

```
End Sub
```

```
Private Sub Timer1_Tick(ByVal sender As System.Object, ByVal e As System.EventArgs)  
Handles Timer1.Tick
```

```
Static i As Integer = 0
```

```
If i < ImageList1.Images.Count - 1 Then
```

```
    i = i + 1
```

```
Else
```

```
    i = 0
```

```
End If
```

```
PictureBox1.Image = ImageList1.Images(i)
```

```
End Sub
```

```
Private Sub VScrollBar1_Scroll (ByVal sender As System.Object,  
ByVal e As System.Windows.Forms.ScrollEventArgs) Handles
```

```
vsbfont.Scroll
```

```
TextBox3.Font = New Font(TextBox3.Font.FontFamily, VScrollBar1.Value)
```

```
End Sub
```

```
Private Sub hsbred_Scroll(ByVal sender As System.Object, ByVal e As  
System.Windows.Forms.ScrollEventArgs) Handles hsbred.Scroll
```

```
    TextBox3.BackColor = Color.FromArgb(Rnd() * 255, 0, 0)
```

```
End Sub
```

```
Private Sub hsbgreen_Scroll(ByVal sender As System.Object, ByVal e As  
System.Windows.Forms.ScrollEventArgs) Handles hsbgreen.Scroll
```

```
    TextBox3.BackColor = Color.FromArgb(0, Rnd() * 255, 0)
```

```
End Sub
```

```
Private Sub hsbblue_Scroll(ByVal sender As System.Object, ByVal e As  
System.Windows.Forms.ScrollEventArgs) Handles hsbblue.Scroll
```

```
    TextBox3.BackColor = Color.FromArgb(0, 0, Rnd() * 255)
```

```
End Sub
```


```
End Class
```

Output:

Displaying date, time and greeting

PICTURE AND DATETIME

Program to display various Images, Date, Time and Greetings



Date: 12-11-2020
Time: 02:31:23 PM
Greeting: GOOD AFTERNOON

[Click To Change Color](#) [Change Font](#)

Red:

Green:

Blue:

Changing red color

PICTURE AND DATETIME

Program to display various Images, Date, Time and Greetings



Date: 12-11-2020
Time: 02:31:23 PM
Greeting: GOOD AFTERNOON

[Click To Change Color](#) [Change Font](#)

Red:

Green:

Blue:

Changing green color

PICTURE AND DATETIME

Program to display various Images, Date, Time and Greetings



Date: 12-11-2020
Time: 02:31:23 PM
Greeting: GOOD AFTERNOON

[Click To Change Color](#) [Change Font](#)

Red:

Green:

Blue:

Changing blue color

PICTURE AND DATETIME

Program to display various Images, Date, Time and Greetings



Date: 12-11-2020
Time: 02:31:23 PM
Greeting: GOOD AFTERNOON

[Click To Change Color](#) [Change Font](#)

Red:

Green:

Blue:

Changing font

PICTURE AND DATETIME

Program to display various Images, Date, Time and Greetings



Date: 12-11-2020
Time: 02:40:19 PM
Greeting: GOOD AFTER

[Click To Change Color](#) [Change Font](#)

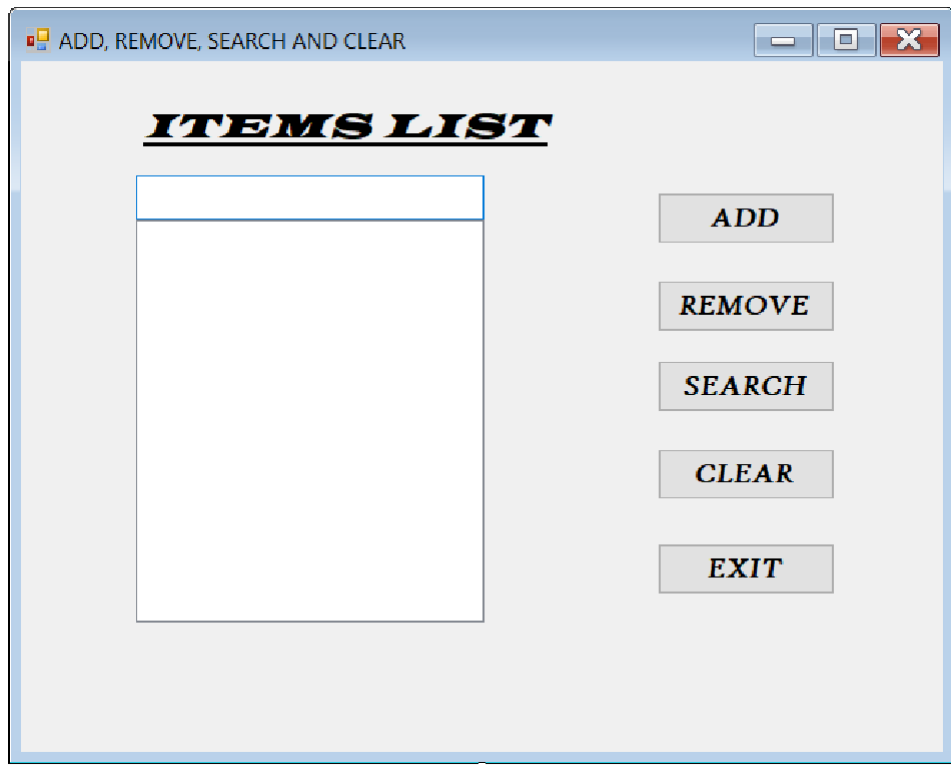
Red:

Green:

Blue:

6. Design a VB interface to add, remove, search and clear the items in a combo box. The item name to be added, removed or searched can be accepted through input box. Use a general procedure to find the existence of item before deleting or while searching.

Design:



Source Code:

Public Class frmcombo

```
Private Sub btnadd_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnadd.Click
    Dim i As String
    i = InputBox("Enter the item name")
    cmbitems.Items.Add(i)
End Sub
```

```
Private Sub btnremove_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnremove.Click
    Dim ritem, item As String
    Dim itemfound As Integer = 0
    ritem = InputBox("Enter the item to be removed")
    For Each item In cmbitems.Items
        If UCase(ritem) = UCase(item) Then
            itemfound = 1
            cmbitems.Items.Remove(ritem)
            Exit For
        End If
    Next
    If itemfound = 0 Then
        MsgBox("Item Not Found in the list")
    End If
End Sub
```

End Sub

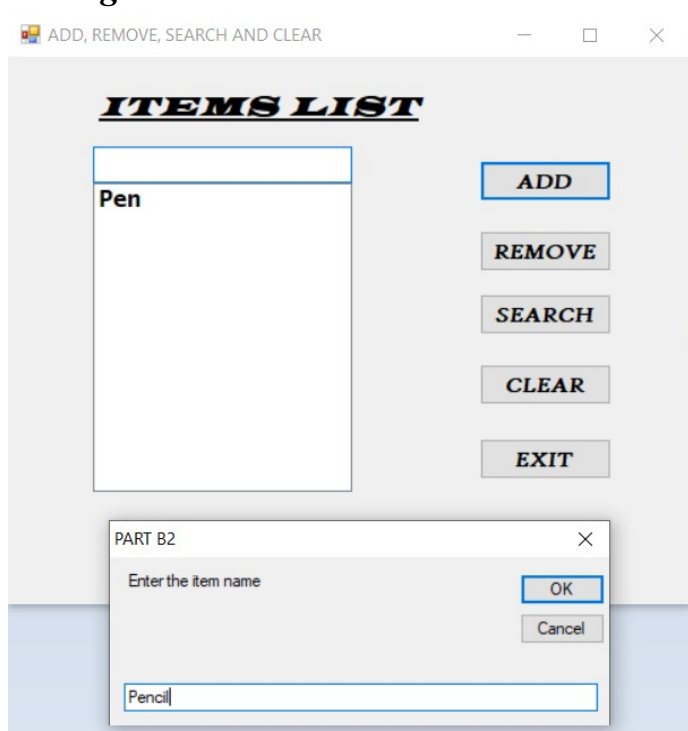
```
Private Sub btnsearch_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnsearch.Click
    Dim sitem, item As String
    Dim itemfound As Integer = 0
    sitem = InputBox("Enter item name to be searched")
    For Each item In cmbitems.Items
        If UCase(sitem) = UCase(item) Then
            itemfound = 1
            Exit For
        End If
    Next
    If itemfound = 1 Then
        MsgBox("Item Found in the list")
    Else
        MsgBox("Item Not Found in the list")
    End If
End Sub
```

```
Private Sub btnclear_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnclear.Click
    cmbitems.Items.Clear()
End Sub
```

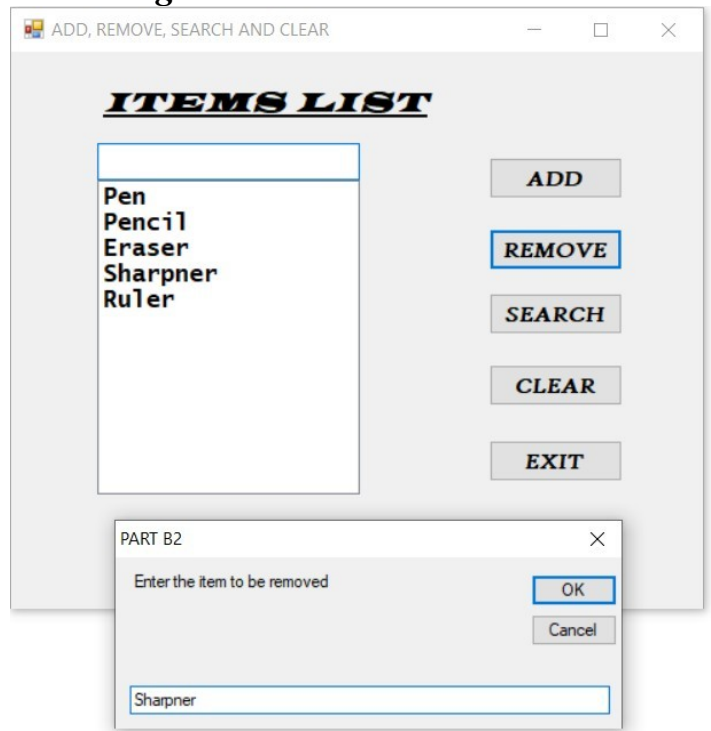
```
Private Sub btnexit_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnexit.Click
    End
End Sub
End Class
```

Output:

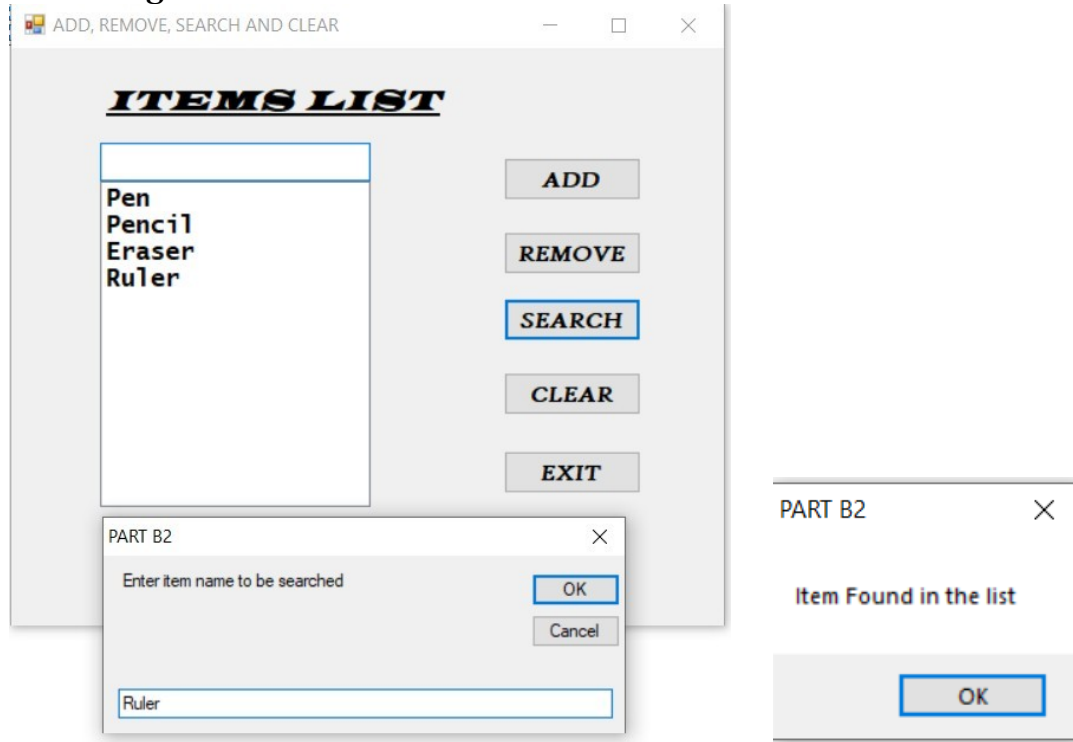
Adding the item



Removing the item

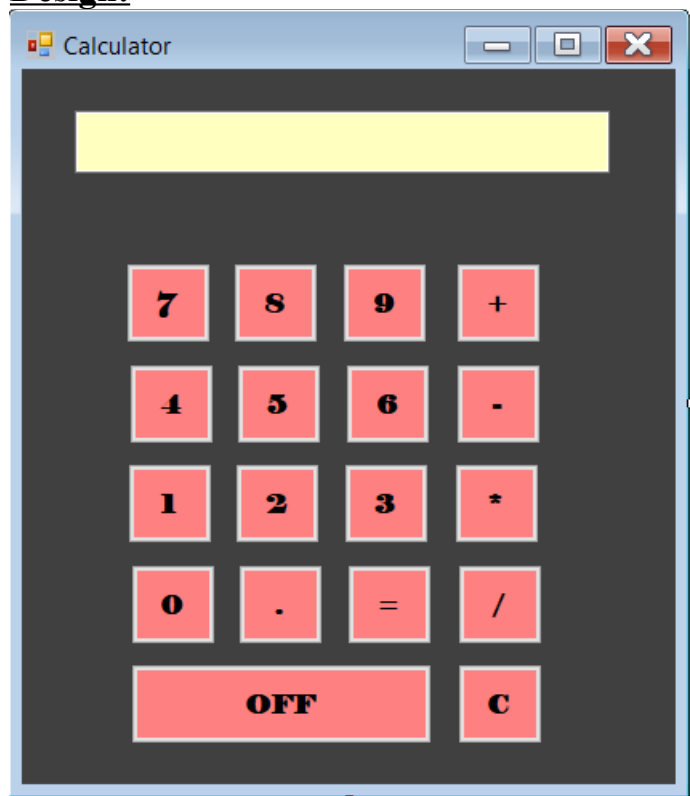


Searching the item



7. Design a simple calculator to perform addition, multiplication, subtraction and division. It should contain buttons for digits 0-9, clear, dot, =, +, -, *, /. Apply the validation rules to avoid entering dot more than once in a number and using – symbol between the digits. Symbol ‘-’ can be used as operator as well as for negative numbers. Any operand can be negative. “Division by zero” to be displayed if divisor is 0.

Design:



Source Code:

Public Class frmcal

Dim fno, sno, res As Double

Dim op As String

Private Sub btnoff_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)

Handles btnoff.Click

End

End Sub

Private Sub btn0_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)

Handles btn0.Click

txtinput.Text = txtinput.Text & 0

End Sub

Private Sub btn1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)

Handles btn1.Click

txtinput.Text = txtinput.Text & 1

End Sub

Private Sub btn2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)

Handles btn2.Click

txtinput.Text = txtinput.Text & 2

End Sub

Private Sub btn3_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)

Handles btn3.Click

txtinput.Text = txtinput.Text & 3

End Sub

Private Sub btn4_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)

Handles btn4.Click

txtinput.Text = txtinput.Text & 4

End Sub

Private Sub btn5_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)

Handles btn5.Click

txtinput.Text = txtinput.Text & 5

End Sub

Private Sub btn6_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)

Handles btn6.Click

txtinput.Text = txtinput.Text & 6

End Sub

Private Sub btn7_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)

Handles btn7.Click

txtinput.Text = txtinput.Text & 7

End Sub


```
Private Sub btn8_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btn8.Click
    txtinput.Text = txtinput.Text & 8
End Sub
```

```
Private Sub btn9_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btn9.Click
    txtinput.Text = txtinput.Text & 9
End Sub
```

```
Private Sub btndot_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btndot.Click
    If InStr(txtinput.Text, ".") Then
        txtinput.Text = txtinput.Text
    Else
        txtinput.Text = txtinput.Text & "."
    End If
End Sub
```

```
Private Sub btnplus_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnplus.Click
    fno = Val(txtinput.Text)
    txtinput.Text = Nothing
    op = "+"
End Sub
```

```
Private Sub btnminus_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnminus.Click
    fno = Val(txtinput.Text)
    txtinput.Text = Nothing
    op = "-"
End Sub
```

```
Private Sub btnmul_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnmul.Click
    fno = Val(txtinput.Text)
    txtinput.Text = Nothing
    op = "*"
End Sub
```

```
Private Sub btndiv_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btndiv.Click
    fno = Val(txtinput.Text)
    txtinput.Text = Nothing
    op = "/"
End Sub
```

```
Private Sub btnequal_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnequal.Click
    sno = Val(txtinput.Text)
```

Select Case op

Case "+"

res = fno + sno

Case "-"

res = fno - sno

Case "*"

res = fno * sno

Case "/"

If fno = 0 Then

MsgBox("You cannot divide by zero")

Else

res = fno / sno

End If

End Select

txtinput.Text = res

End Sub

Private Sub btnc_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)

Handles btnc.Click

txtinput.Text = Nothing

txtinput.Focus()

End Sub

Private Sub frmcal_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)

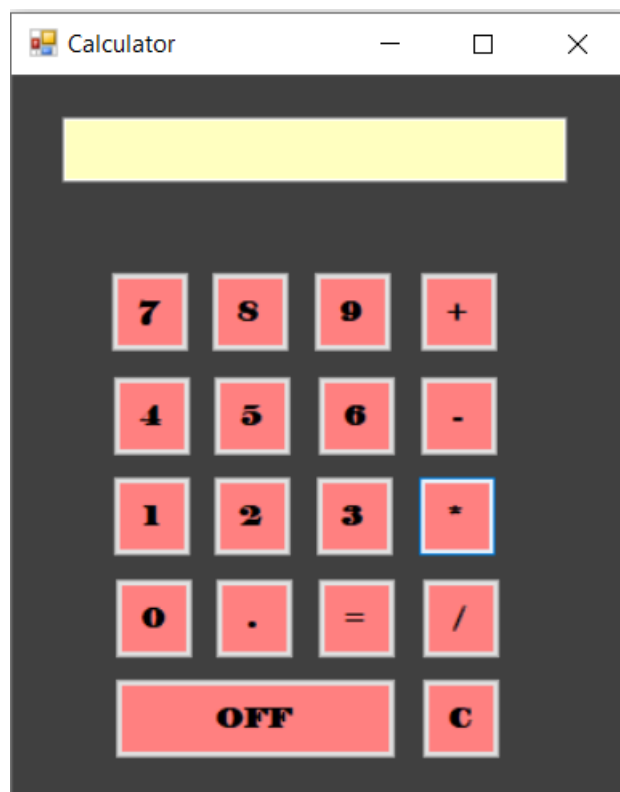
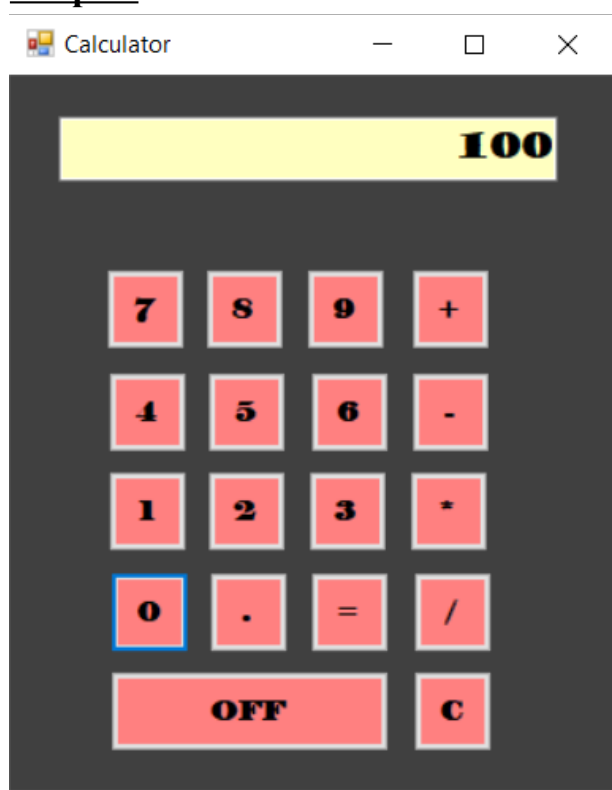
Handles MyBase.Load

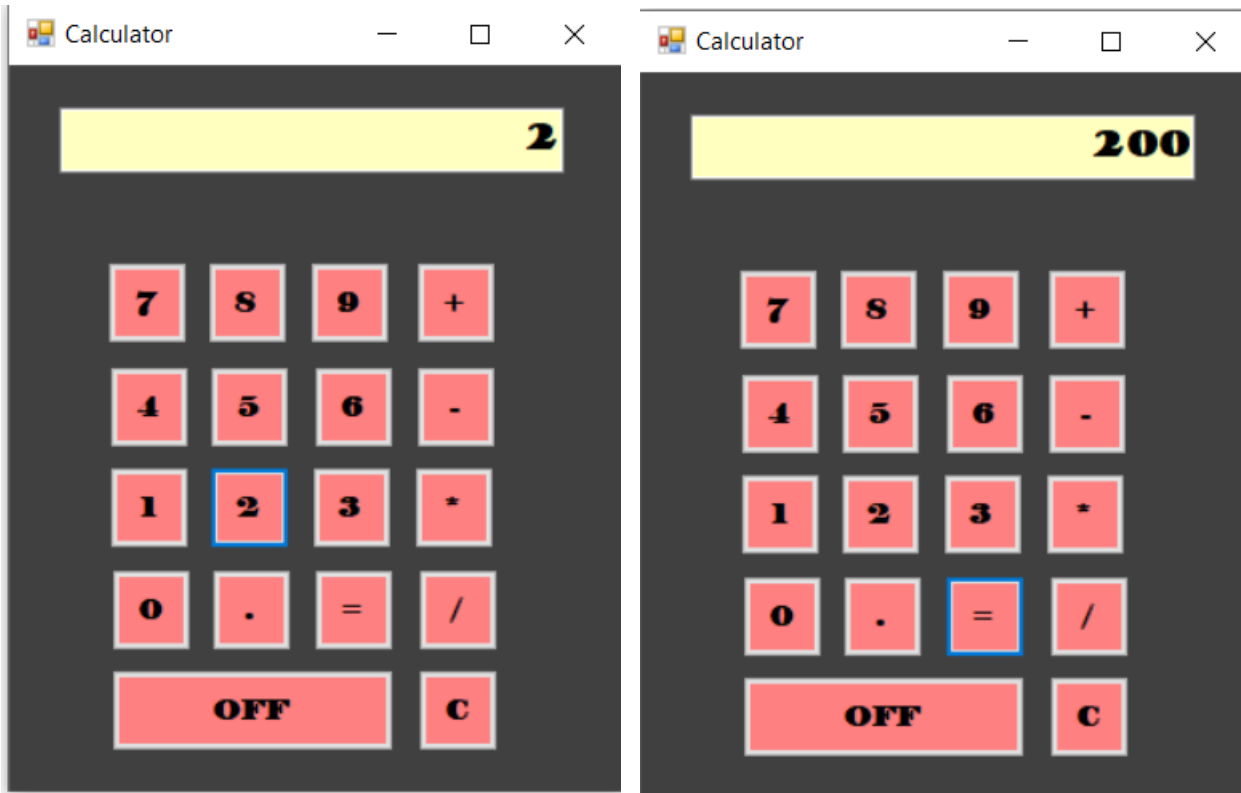
txtinput.Focus()

End Sub

End Class

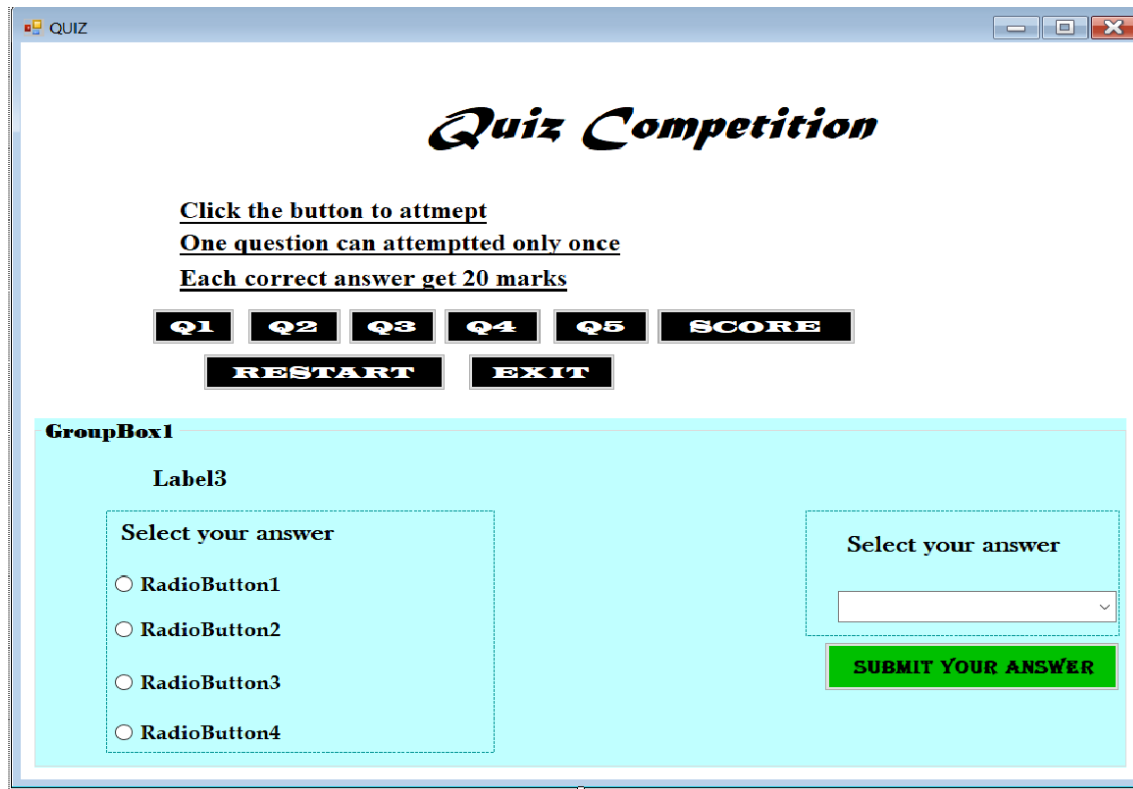
Output:





8. Design VB interface to conduct simple multiple choice Quiz with at least 5 questions. For selecting the answers, use combo box and radio buttons for few questions. One question can be answered only once. Show the total score through the message box whenever the user wishes to see his score in between the competition. Any question can be attempted randomly. Design can be as shown below.

Design:



Source Code:

Public Class frnquiz

Dim qno As Integer = 0

Dim score As Integer = 0

Private Sub frnquiz_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)

Handles MyBase.Load

gbtitle.Hide()

Panel2.Hide()

btnsubmit.Enabled = False

End Sub

Private Sub btnq1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)

Handles btnq1.Click

qno = 1

Call a1()

Panel1.Show()

Panel2.Hide()

gbtitle.Text = "Q1"

lblquestion.Text = "1. President of SDME Society"

rbans1.Text = "Dr. Yahovarma"

rbans2.Text = "Dr. Devaraj"

rbans3.Text = "Dr. D. Veerendra Hegde"

rbans4.Text = "Mr. Harshendra Hegde"

End Sub

Private Sub btnq2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)

Handles btnq2.Click

qno = 2

Call a1()

Panel1.Show()

Panel2.Hide()

gbtitle.Text = "Q2"

lblquestion.Text = "2. Principal of SDMCBM"

rbans1.Text = "Mrs. Smitha"

rbans2.Text = "Mrs. Aruna P. Kamath"

rbans3.Text = "Mrs. Divya Uchil"

rbans4.Text = "Mrs. Manju"

End Sub

Private Sub btnq3_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)

Handles btnq3.Click

qno = 3

Panel1.Hide()

Panel2.Show()

Call a1()

cmbanswer.Items.Clear()

cmbanswer.Text = ""

gbtitle.Text = "Q3"

lblquestion.Text = "3. Dean of BCA department"

cmbanswer.Items.Add("Mrs. Divya Uchil")

```
cmbanswer.Items.Add("Mr. Arun F S")
cmbanswer.Items.Add("Mrs. Shashikala")
cmbanswer.Items.Add("Mrs. Deepa")
```

End Sub

```
Private Sub btnq4_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnq4.Click
```

```
qno = 4
Panel2.Hide()
Panel1.Show()
Call a1()
gbtitle.Text = "Q4"
lblquestion.Text = "4. Which instrument is used to measure blood pressure?"
rbans1.Text = "Stethoscope"
rbans2.Text = "Thermometer"
rbans3.Text = "Voltmeter"
rbans4.Text = "Spigmomanometer"
```

End Sub

```
Private Sub btnq5_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnq5.Click
```

```
qno = 5
Panel1.Hide()
Panel2.Show()
Call a1()
cmbanswer.Text = ""
cmbanswer.Items.Clear()
gbtitle.Text = "Q5"
lblquestion.Text = "5. 100*5=?"
cmbanswer.Items.Add("1000")
cmbanswer.Items.Add("500")
cmbanswer.Items.Add("10000")
cmbanswer.Items.Add("3000")
```

End Sub

```
Private Sub a1()
btnsubmit.Enabled = True
gbtitle.Show()
```

End Sub

```
Private Sub btnsubmit_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles btnsubmit.Click
```

```
btnsubmit.Enabled = False
If qno = 1 Then
    btnq1.Enabled = False
    If rbans3.Checked Then
        score = score + 10
    End If
End If
If qno = 2 Then
    btnq2.Enabled = False
```

```

        If rbans2.Checked Then
            score = score + 10
        End If
    End If
    If qno = 3 Then
        btnq3.Enabled = False
        If cmbanswer.SelectedItem.ToString = "Mrs. Divya Uchil" Then
            score = score + 10
        End If
    End If
    If qno = 4 Then
        btnq4.Enabled = False
        If rbans4.Checked Then
            score = score + 10
        End If
    End If
    If qno = 5 Then
        btnq5.Enabled = False
        If cmbanswer.SelectedItem.ToString = "500" Then
            score = score + 10
        End If
    End If
End Sub

Private Sub btnscore_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnscore.Click
    MsgBox("Total Score=" & score)
End Sub

Private Sub btnexit_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnexit.Click
    End
End Sub

Private Sub btnrestart_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnrestart.Click
    btnq1.Enabled = True
    btnq2.Enabled = True
    btnq3.Enabled = True
    btnq4.Enabled = True
    btnq5.Enabled = True
    score = 0
    gbtitle.Hide()
End Sub
End Class

```

Output:

QUIZ

Quiz Competition

Click the button to attempt

One question can attempted only once

Each correct answer get 20 marks

Q1

Q2

Q3

Q4

Q5

SCORE

RESTART

EXIT

Q1

1. President of SDME Society

Select your answer

☐ Dr. Yahovarma

☐ Dr. Devaraj

☒ Dr. D. Veerendra Hegde

☐ Mr. Harshendra Hegde

SUBMIT YOUR ANSWER

QUIZ

Quiz Competition

Click the button to attempt

One question can attempted only once

Each correct answer get 20 marks

Q2

Q3

Q4

Q5

SCORE

RESTART

EXIT

Q5

5. $100 \div 5 = ?$

Select your answer

500

SUBMIT YOUR ANSWER

PART B4

Total Score=50

OK