VISUAL BASIC

Bharti Vermani's Class

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PAALBI
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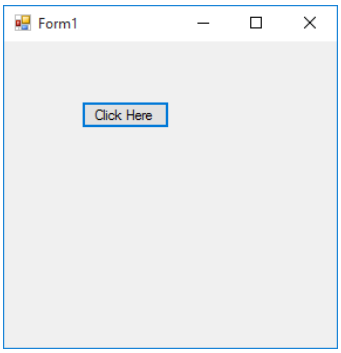
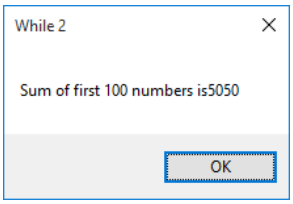
Contents

Calculation of the sum of first 100 numbers

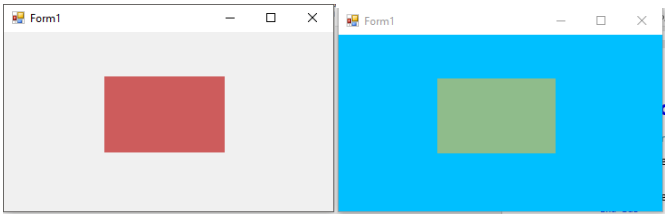
```
Public Class Form1
   Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
      Dim i As Integer
      Dim sum As Integer
      i = 0
      sum = 0
      While i < 101
         sum = sum + i
         i = i + 1
      End While
      MsgBox("Sum of first 100 numbers is" & sum)
   End Sub
End Class
```





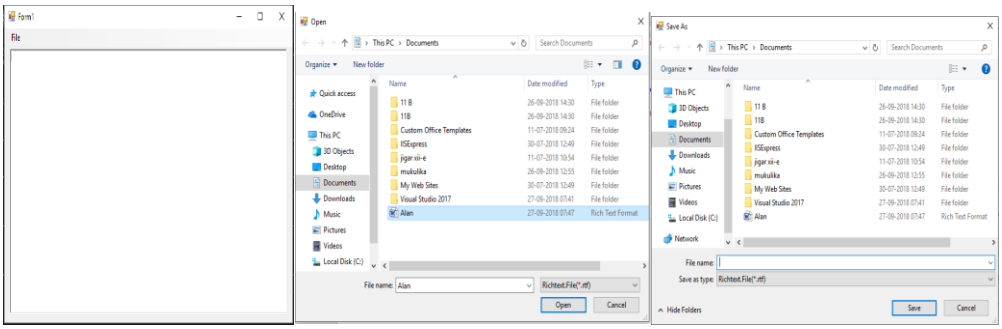
Drag-Drop

```
Public Class Form1
    Private Sub Form1_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        PictureBox1.BackColor = Color.IndianRed
    End Sub
    Private Sub Form1_DragDrop(sender As Object, e As DragEventArgs) Handles Me.DragDrop
        PictureBox1.BackColor = Color.DarkSeaGreen
    End Sub

    Private Sub Form1_DragOver(sender As Object, e As DragEventArgs) Handles Me.DragOver
        e.Effect = DragDropEffects.All
        Me.BackColor = Color.DeepSkyBlue
    End Sub
End Class
```



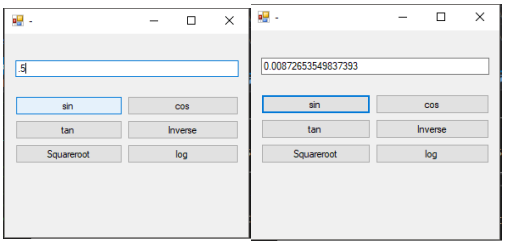
Notepad

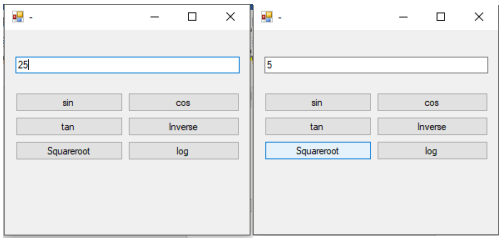
```
Public Class Form1
    Private Sub ClearToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles
ClearToolStripMenuItem.Click
        RichTextBox1.Clear()
    End Sub
    Private Sub ExitToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles ExitToolStripMenuItem.Click
        Me.Close()
    End Sub
    Private Sub OpenFileDialog1_FileOk(sender As Object, e As CancelEventArgs) Handles OpenFileDialog1.FileOk
        RichTextBox1.LoadFile(OpenFileDialog1.FileName)
    End Sub

    Private Sub SaveFileDialog1_FileOk(sender As Object, e As CancelEventArgs) Handles SaveFileDialog1.FileOk
        RichTextBox1.SaveFile(SaveFileDialog1.FileName)
    End Sub
    Private Sub OpenToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles
OpenToolStripMenuItem.Click
        OpenFileDialog1.Filter = "Richtext.File(*.rtf)|*.rtf"
        OpenFileDialog1.ShowDialog()
    End Sub

    Private Sub SaveToolStripMenuItem_Click(sender As Object, e As EventArgs) Handles
SaveToolStripMenuItem.Click
        SaveFileDialog1.Filter = "Richtext.File(*.rtf)|*.rtf"
        SaveFileDialog1.ShowDialog()
    End Sub
End Class
```



Scientific Calculator

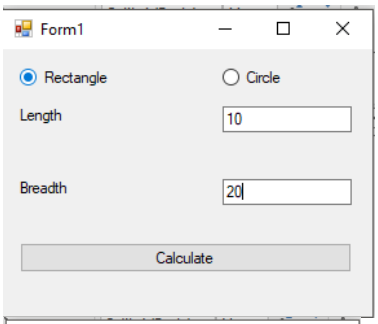
```
Public Class Form1
    Dim input As Double
    Private Sub sin_btn_Click(sender As Object, e As EventArgs) Handles sin_btn.Click
        input = CDbl(TextBox1.Text)
        TextBox1.Text = System.Math.Sin(input * Math.PI / 180)
    End Sub
    Private Sub cos_btn_Click(sender As Object, e As EventArgs) Handles cos_btn.Click
        input = CDbl(TextBox1.Text)
        TextBox1.Text = System.Math.Cos(input * Math.PI / 180)
    End Sub
    Private Sub tan_btn_Click(sender As Object, e As EventArgs) Handles tan_btn.Click
        input = CDbl(TextBox1.Text)
        TextBox1.Text = System.Math.Tan(input * Math.PI / 180)
    End Sub
    Private Sub inverse_btn_Click(sender As Object, e As EventArgs) Handles inverse_btn.Click
        input = CDbl(TextBox1.Text)
        If (input = 0) Then
            MsgBox("Input can't be 0")
            Return
        End If
        TextBox1.Text = 1 / input
    End Sub
    Private Sub log_btn_Click(sender As Object, e As EventArgs) Handles log_btn.Click
        input = CDbl(TextBox1.Text)
        TextBox1.Text = System.Math.Log10(input)
    End Sub
    Private Sub sqrt_btn_Click(sender As Object, e As EventArgs) Handles sqrt_btn.Click
        input = CDbl(TextBox1.Text)
        If (input < 0) Then
            MsgBox("Input can't be less than 0")
            Return
        End If
        TextBox1.Text = input ^ 0.5
    End Sub
End Class
```

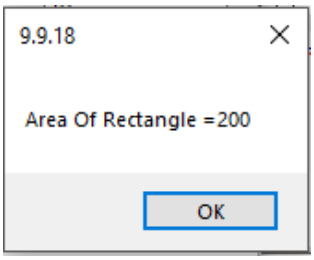


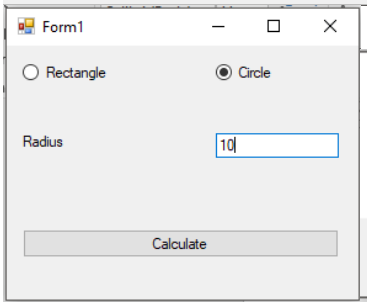


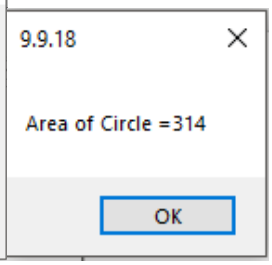
Area of Rectangle or Circle

```
Public Class Form1
    Private Sub Rectangle_CheckedChanged(sender As Object, e As EventArgs) Handles
Rectangle.CheckedChanged
        If Rectangle.Checked Then
            length_label.Visible = True
            length_text.Visible = True
            breadth_label.Visible = True
            breadth_text.Visible = True
            radius_label.Visible = False
            radius_text.Visible = False
        End If
    End Sub
    Private Sub Circle_CheckedChanged(sender As Object, e As EventArgs) Handles
Circle.CheckedChanged
        If Circle.Checked Then
            length_label.Visible = False
            length_text.Visible = False
            breadth_label.Visible = False
            breadth_text.Visible = False
            radius_label.Visible = True
            radius_text.Visible = True
        End If
    End Sub
    Private Sub Calculate_btn_Click(sender As Object, e As EventArgs) Handles
Calculate_btn.Click
        If Rectangle.Checked Then
            MsgBox("Area Of Rectangle =" & CDbl(length_text.Text) *
CDbl(breadth_text.Text))
        ElseIf Circle.Checked Then
            MsgBox("Area of Circle =" & 3.14 * CDbl(radius_text.Text) ^ 2)
        End If
    End Sub
End Class
```





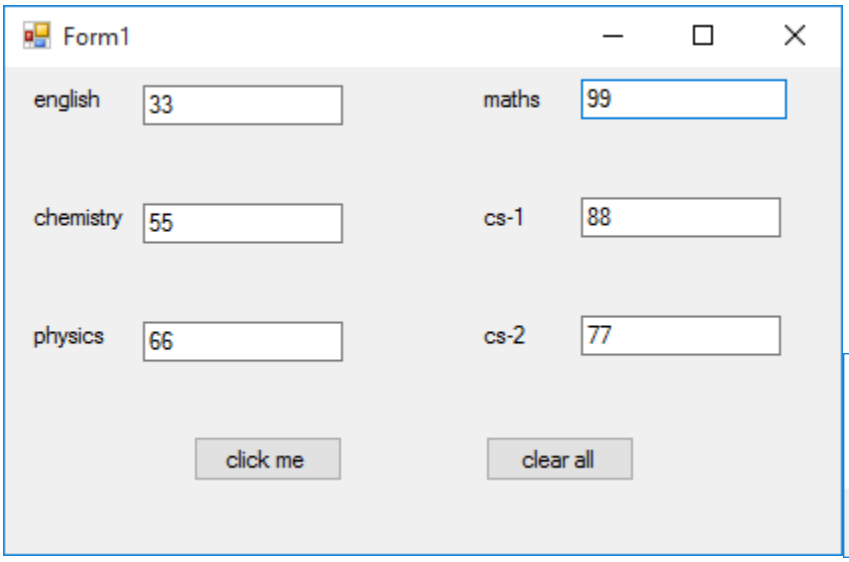


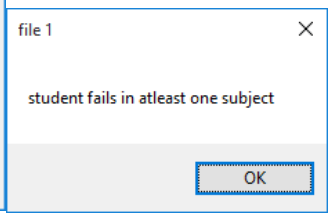


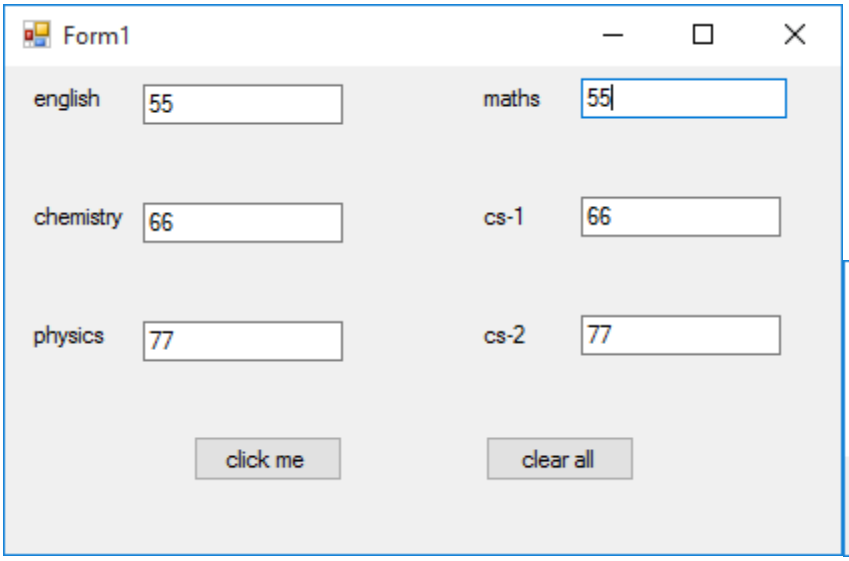
Validate the marks of a student

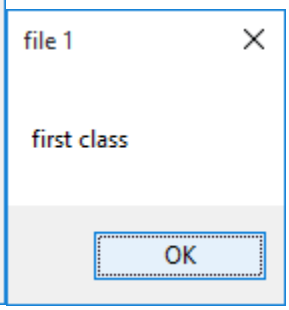
```
Public Class form1

    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        Dim phy, chem, maths, cs1, cs2, eng As Double
        Try
            phy = CDbl(physics.Text)
            chem = CDbl(chemistry.Text)
            maths = CDbl(mathematics.Text)
            cs1 = CDbl(computersc1.Text)
            cs2 = CDbl(computersc2.Text)
            eng = CDbl(english.Text)
        Catch ex As Exception
            MsgBox("you have entered non-numeric value. please enter4 a no. between 0 and
100")
            Return
        End Try
        Dim sum As Integer
        sum = phy + chem + maths + cs1 + cs2 + phy
        Dim percentage As Double
        percentage = (sum / 6)
        If phy > 100 Or chem > 100 Or maths > 100 Or cs1 > 100 Or cs2 > 100 Or eng > 100
Then
            cleartextboxes()
            Return
        End If
        If phy < 0 Or chem < 0 Or maths < 0 Or cs1 < 0 Or cs2 < 0 Or eng < 0 Then
            MsgBox("you have entered invalid marks")
            cleartextboxes()
            Return
        End If
        If phy < 40 Or chem < 40 Or maths < 40 Or cs1 < 40 Or cs2 < 40 Or eng < 40 Then
            MsgBox(" student fails in atleast one subject")
        Else
            Select Case percentage
                Case 40 To 59
                    MsgBox("second class")
                Case 60 To 100
                    MsgBox("first class")
            End Select
        End If
        cleartextboxes()
    End Sub

    Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
        cleartextboxes()
    End Sub

    Private Sub cleartextboxes()
        physics.Text = ""
        chemistry.Text = ""
        mathematics.Text = ""
        computersc1.Text = ""
        computersc2.Text = ""
        english.Text = ""
    End Sub
```

```
End Class
```


Form1
english
33
maths
99
chemistry
55
cs-1
88
physics
66
cs-2
77
click me
clear all


file 1
student fails in atleast one subject
OK


Form1
english
55
maths
55
chemistry
66
cs-1
66
physics
77
cs-2
77
click me
clear all


file 1
first class
OK

Verify the details entered by the user.

```
Public Class Form1
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        If (sname.Text.Length < 1) Then
            MsgBox("Invalid name. Name cannot be blank")
            sname.Focus()
            Return
        End If
        Dim d As Date
        Try
            d = CDate(sdate.Text)
        Catch ex As Exception
            MessageBox.Show("Invalid Date")
            sdate.Focus()
            Return
        End Try
        Dim no As Long
        Try
            no = CLng(sphone.Text)
            If (sphone.Text.Length < 9) Then
                MsgBox("Most phone no.s contain 9 digits")
                sphone.Focus()
                Return
            End If
        Catch ex As Exception
            MsgBox("Invalid no.")
            sphone.Focus()
            Return
        End Try
        MsgBox("Correct Data")
    End Sub
End Class
```