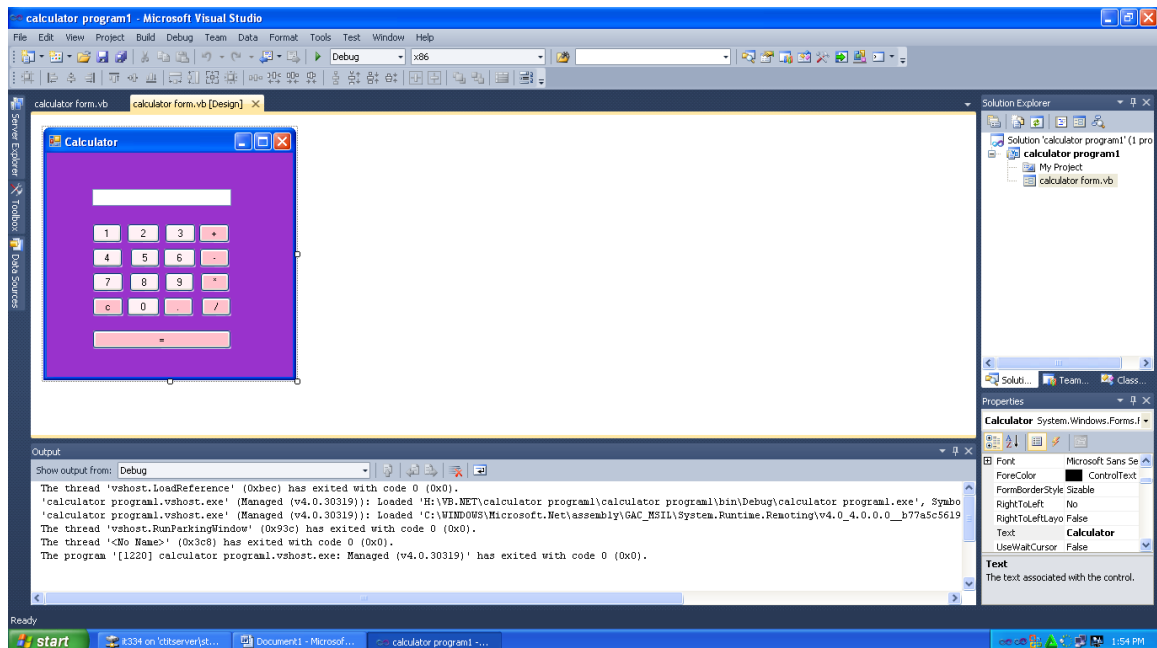


1. Write a program to design an Arithmetic Calculator using Buttons and Textbox.

## Form Design



## CODING

Public Class Calculator

Dim firstnum As Decimal

Dim secondnum As Decimal

Dim Operation As Integer

Dim Operator\_Selector As Boolean = False

Private Sub Button2\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button2.Click

If TextBox1.Text <> "0" Then

TextBox1.Text += "2"

Else : TextBox1.Text = "2"

End If

End Sub

Private Sub Button15\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button15.Click

```
    TextBox1.Text = "0"
```

```
End Sub
```

```
Private Sub Button11_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
Button11.Click
```

```
    Firstnum = TextBox1.Text
```

```
    TextBox1.Text = " "
```

```
    Operator_Selector = True
```

```
    Operation = 1 '=+
```

```
End Sub
```

```
Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
Button1.Click
```

```
    If TextBox1.Text <> "0" Then
```

```
        TextBox1.Text += "1"
```

```
    Else : TextBox1.Text = "1"
```

```
    End If
```

```
End Sub
```

```
Private Sub Button4_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
Button4.Click
```

```
    If TextBox1.Text <> "0" Then
```

```
        TextBox1.Text += "4"
```

```
    Else : TextBox1.Text = "4"
```

```
    End If
```

```
End Sub
```

```
Private Sub Button12_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
Button12.Click
```

```
    Firstnum = TextBox1.Text
```

```
    TextBox1.Text = ""
```

```
    Operator_Selector = True
```

```
    Operation = 2 '=-
```

```
End Sub
```

```
Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
Button3.Click
```

```
    If TextBox1.Text <> "0" Then
```

```

        TextBox1.Text += "3"

    Else : TextBox1.Text = "3"

    End If

End Sub

Private Sub Button5_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
Button5.Click

    If TextBox1.Text <> "0" Then

        TextBox1.Text += "5"

    Else : TextBox1.Text = "5"

    End If

End Sub

Private Sub Button6_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
Button6.Click

    If TextBox1.Text <> "0" Then

        TextBox1.Text += "6"

    Else : TextBox1.Text = "6"

    End If

End Sub

Private Sub Button7_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
Button7.Click

    If TextBox1.Text <> "0" Then

        TextBox1.Text += "7"

    Else : TextBox1.Text = "7"

    End If

End Sub

Private Sub Button8_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
Button8.Click

    If TextBox1.Text <> "0" Then

        TextBox1.Text += "8"

    Else : TextBox1.Text = "8"

    End If

End Sub

```

```
Private Sub Button9_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button9.Click
```

```
    If TextBox1.Text <> "0" Then
```

```
        TextBox1.Text += "9"
```

```
    Else : TextBox1.Text = "9"
```

```
    End If
```

```
End Sub
```

```
Private Sub Button0_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button10.Click
```

```
    If TextBox1.Text <> "0" Then
```

```
        TextBox1.Text += "0"
```

```
    Else : TextBox1.Text = "0"
```

```
    End If
```

```
End Sub
```

```
Private Sub Button16_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button16.Click
```

```
    If Not (TextBox1.Text.Contains(".")) Then
```

```
        TextBox1.Text += "."
```

```
    End If
```

```
End Sub
```

```
Private Sub Button17_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button17.Click
```

```
    If Operator_Selector = True Then
```

```
        Secondnum = TextBox1.Text
```

```
    If Operation = 1 Then
```

```
        TextBox1.Text = firstnum + secondnum
```

```
    ElseIf Operation = 2 Then
```

```
        TextBox1.Text = firstnum - secondnum
```

```
    ElseIf Operation = 3 Then
```

```
        TextBox1.Text = firstnum * secondnum
```

```
    Else
```

```
        If secondnum = 0 Then
```

```

        TextBox1.Text = "ERROR...."

    Else

        TextBox1.Text = firstnum / secondnum

    End If

End If

Operator_Selector = vbFalse

End If

End Sub

Private Sub Button14_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
Button14.Click

    Firstnum = TextBox1.Text

    TextBox1.Text = " "

    Operator_Selector = True

    Operation = 4 '=/

End Sub

Private Sub Button13_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
Button13.Click

    Firstnum = TextBox1.Text

    TextBox1.Text = " "

    Operator_Selector = True

    Operation = 3 '*

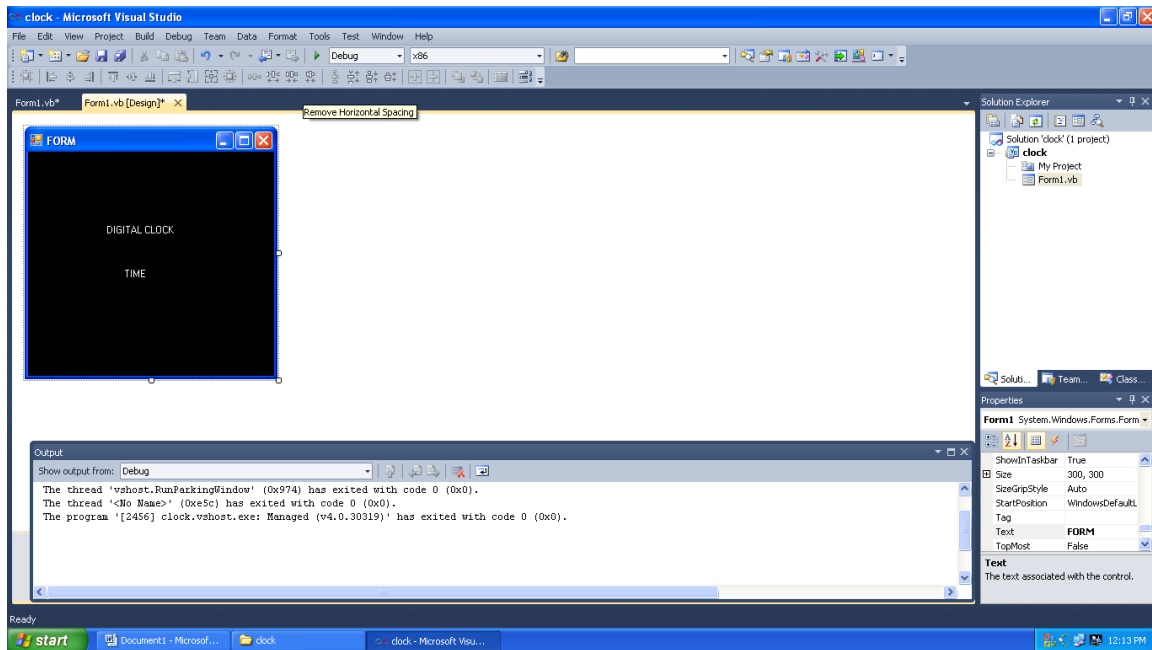
End Sub

End Class

```

2. Write a program to create Digital Clock using Label and Timer.

## FORM DESIGN



## CODING

Public Class Form1

Private Sub Form1\_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load

Timer1.Start()

End Sub

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

Label1.Text = DateAndTime.Now

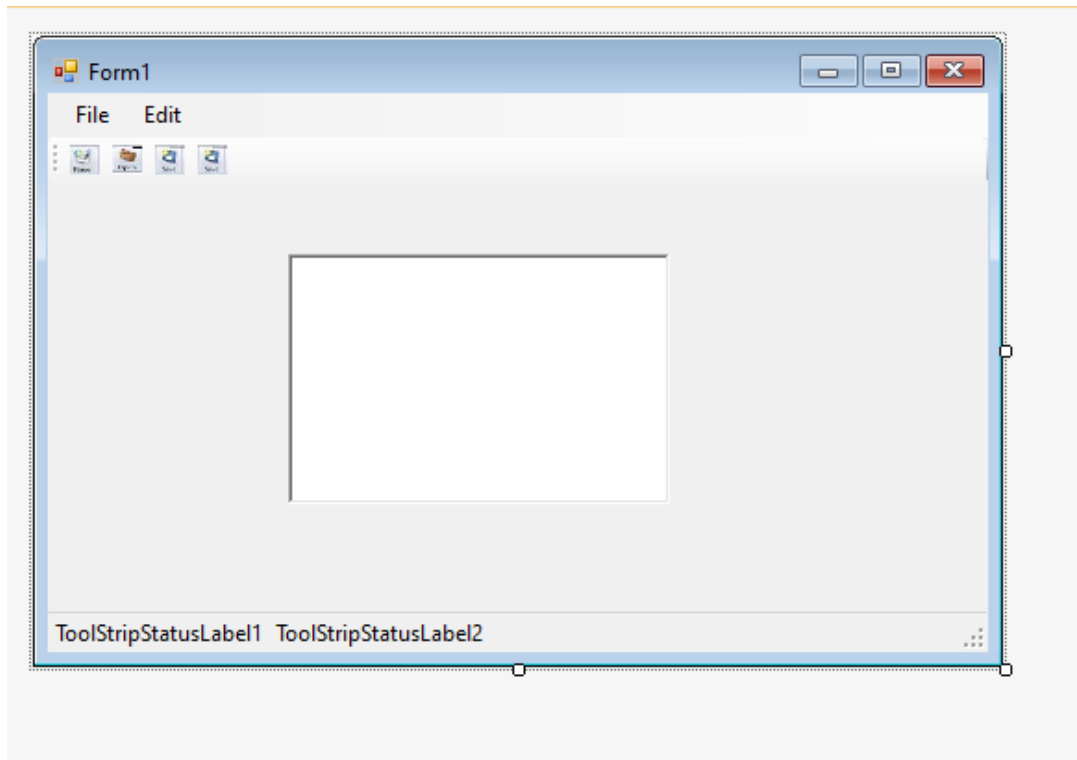
End Sub

End Class

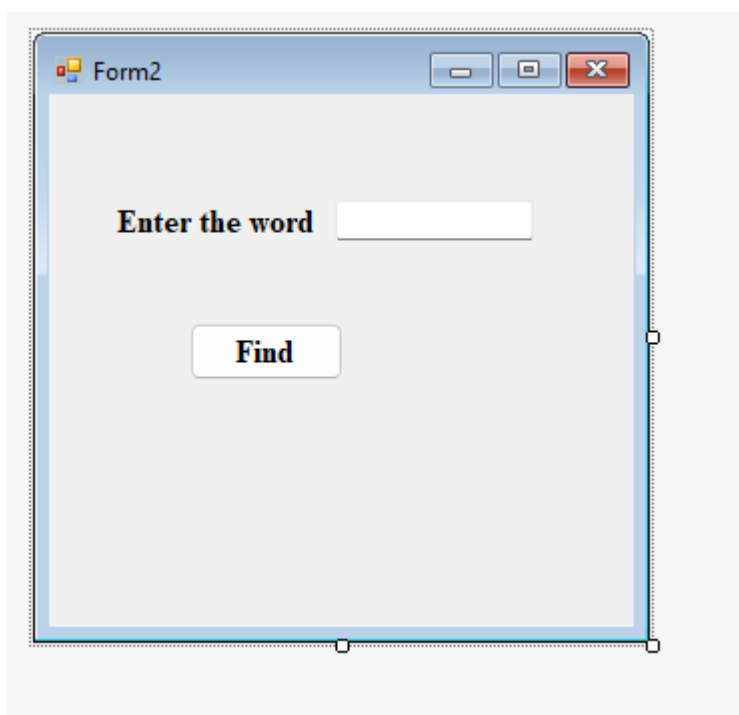
3. write a program to create Menus, Status Bars and Tool Bars.

## FORM DESIGN

### FORM 1



### FORM 2



## FORM1:

Public Class Form1

Private Sub NewToolStripMenuItem\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles NewToolStripMenuItem.Click

MsgBox("New menuitem is selected")

End Sub

Private Sub OpenToolStripMenuItem\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles OpenToolStripMenuItem.Click

OpenFileDialog1.ShowDialog()

End Sub

Private Sub SaveToolStripMenuItem\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles SaveToolStripMenuItem.Click

SaveFileDialog1.ShowDialog()

End Sub

Private Sub PrintToolStripMenuItem\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles PrintToolStripMenuItem.Click

PrintDialog1.ShowDialog()

End Sub

Private Sub ExitToolStripMenuItem\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles ExitToolStripMenuItem.Click

Close()

End Sub

Private Sub FindToolStripMenuItem\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles FindToolStripMenuItem.Click

Form2.Show()

End Sub

Private Sub CutToolStripMenuItem\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles CutToolStripMenuItem.Click

RichTextBox1.Cut()

End Sub

Private Sub CopyToolStripMenuItem\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles CopyToolStripMenuItem.Click

RichTextBox1.Copy()



End Sub

Private Sub PasteToolStripMenuItem\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles PasteToolStripMenuItem.Click

RichTextBox1.Paste()

End Sub

Private Sub Form1\_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load

ToolStripStatusLabel1.Text = Today

ToolStripStatusLabel2.Text = TimeOfDay

End Sub

End Class

## **FORM2:**

Public Class Form2

Private Sub Button1\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button1.Click

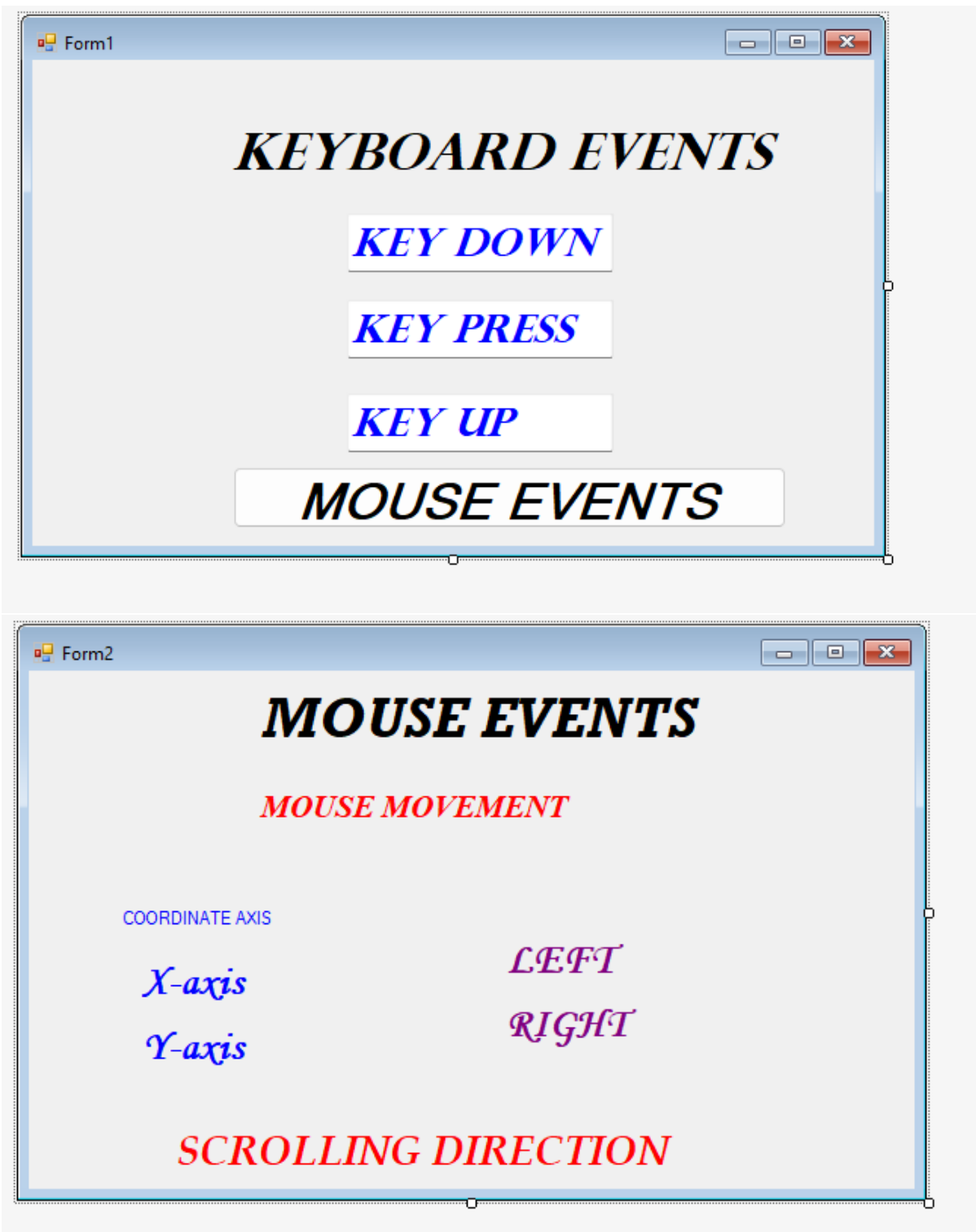
Form1.RichTextBox1.Find(textBox1.Text)

Me.Close()

End Sub

End Class

4. Write a program for Keyboard and Mouse events.



# FORM1 CODING

```
Public Class Form1

    Private Sub TextBox1_KeyDown(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyEventArgs) Handles TextBox1.KeyDown
        If e.KeyCode = Keys.Enter Then
            MsgBox("FOR KEY DOWN-ENTER KEY PRESSED")
        End If
    End Sub

    Private Sub TextBox2_KeyPress(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyPressEventArgs) Handles TextBox2.KeyPress
        If e.KeyChar = Convert.ToChar(13) Then
            MsgBox("FOR KEY PRESS-ENTER KEY PRESSED")
        End If
    End Sub

    Private Sub TextBox3_KeyUp(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyEventArgs) Handles TextBox3.KeyUp
        If e.KeyCode = Keys.Enter Then
            MsgBox("FOR KEY UP-ENTER KEY PRESSE
D")
        End If
    End Sub

    Private Sub TextBox1_TextChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles TextBox1.TextChanged
    End Sub

    Private Sub Form1_Load(sender As Object, e As EventArgs) Handles MyBase.Load
    End Sub

    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
        Form2.Show()
    End Sub
End Class
```

```
Public Class Form1

    Private Sub TextBox1_KeyDown(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyEventArgs) Handles TextBox1.KeyDown
        If e.KeyCode = Keys.Enter Then
            MsgBox("FOR KEY DOWN-ENTER KEY PRESSED")
        End If
    End Sub

    Private Sub TextBox2_KeyPress(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyPressEventArgs) Handles TextBox2.KeyPress
        If e.KeyChar = Convert.ToChar(13) Then
            MsgBox("FOR KEY PRESS-ENTER KEY PRESSED")
        End If
    End Sub
```

```

End Sub

Private Sub TextBox3_KeyUp(ByVal sender As Object, ByVal e As
System.Windows.Forms.KeyEventArgs) Handles TextBox3.KeyUp
    If e.KeyCode = Keys.Enter Then
        MsgBox("FOR KEY UP-ENTER KEY PRESSE
D")
    End If
End Sub

Private Sub TextBox1_TextChanged(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles TextBox1.TextChanged

End Sub

Private Sub Form1_Load(sender As Object, e As EventArgs) Handles MyBase.Load

End Sub

Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
    Form2.Show()
End Sub
End Class

```

## FORM2 CODING

```

Public Class Form2

    Private Sub Form2_MouseDown(ByVal sender As Object, ByVal e As
System.Windows.Forms.MouseEventHandler) Handles Me.MouseDown
        If e.Button = MouseButtons.Left Then
            lblleft.Text = "PRESSED"
        ElseIf e.Button = MouseButtons.Right Then
            lblright.Text = "PRESSED"
        End If
    End Sub

    Private Sub Form2_MouseLeave(ByVal sender As Object, ByVal e As System.EventArgs)
Handles Me.MouseLeave
        lblinside.Text = "MOUSE IS NOT INSIDE NOW"
    End Sub

    Private Sub Form2_MouseMove(ByVal sender As Object, ByVal e As
System.Windows.Forms.MouseEventHandler) Handles Me.MouseMove
        lblx.Text = e.X
        lbly.Text = e.Y
    End Sub

    Private Sub Form2_MouseUp(ByVal sender As Object, ByVal e As
System.Windows.Forms.MouseEventHandler) Handles Me.MouseUp
        If e.Button = MouseButtons.Left Then
            lblleft.Text = "UNPRESSED"
        ElseIf e.Button = MouseButtons.Right Then
            lblright.Text = "UNPRESSED"
        End If
    End Sub
End Class

```

```

        End If

    End Sub

    Private Sub lblinside_MouseDown(ByVal sender As Object, ByVal e As
System.Windows.Forms.MouseEventArgs) Handles lblinside.MouseDown
        If e.Button = MouseButtons.Left Then
            lblleft.Text = "PRESSED"
        ElseIf e.Button = MouseButtons.Right Then
            lblright.Text = "PRESSED"
        End If

    End Sub

    Private Sub lblinside_MouseEnter(ByVal sender As Object, ByVal e As
System.EventArgs) Handles lblinside.MouseEnter
        lblinside.Text = "MOUSE IS INSIDE NOW"
    End Sub

    Private Sub lblinside_MouseLeave(ByVal sender As Object, ByVal e As
System.EventArgs) Handles lblinside.MouseLeave
        lblinside.Text = "MOUSE IS NOT INSIDE NOW"
    End Sub

    Private Sub lblinside_MouseUp(ByVal sender As Object, ByVal e As
System.Windows.Forms.MouseEventArgs) Handles lblinside.MouseUp
        If e.Button = MouseButtons.Left Then
            lblleft.Text = "UNPRESSED"
        ElseIf e.Button = MouseButtons.Right Then
            lblright.Text = "UNPRESSED"
        End If

    End Sub

    Private Sub Form2_MouseWheel(ByVal sender As Object, ByVal e As
System.Windows.Forms.MouseEventArgs) Handles Me.MouseWheel
        If e.Delta < 0 Then
            lblscroll.Text = "DOWN DIRECTION"
        End If
        If e.Delta > 0 Then
            lblscroll.Text = "UP DIRECTION"
        End If

    End Sub

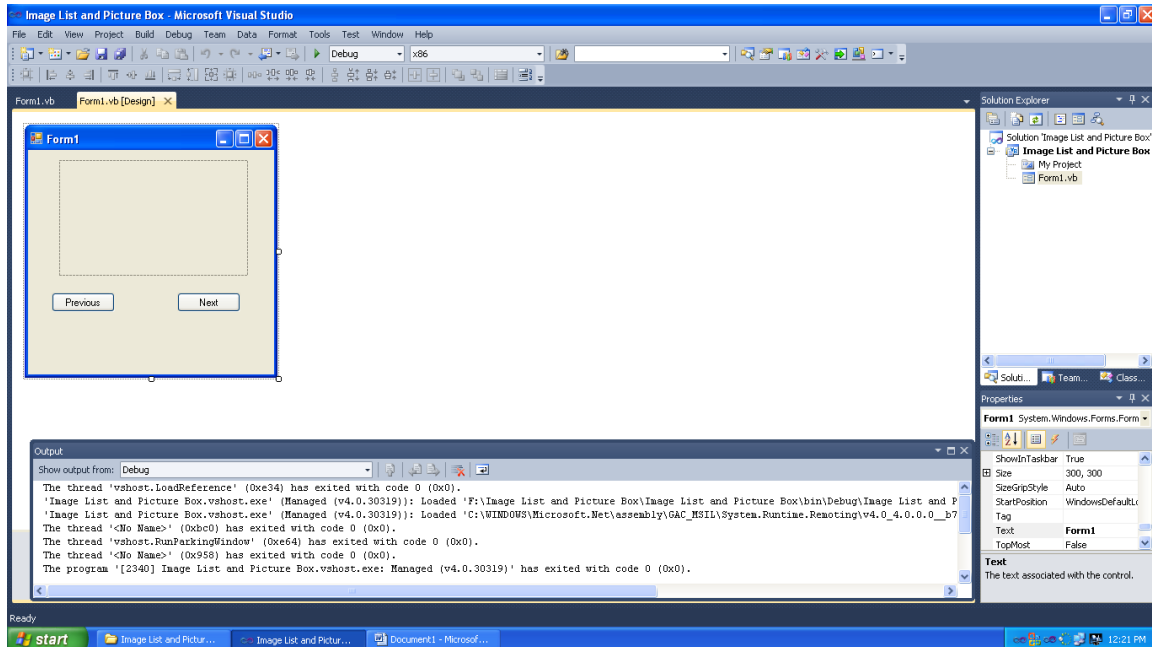
    Private Sub Form2_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles MyBase.Load

        End Sub
End Class

```

5. Write a program to select image from list box and display it in the picture box.

## FORM DESIGN



Public Class Form1

Dim idx As Integer

Private Sub Form1\_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load

idx = 0

displayimage()

End Sub

Private Sub displayimage()

Picscreen.Image = album.Images(idx)

End Sub

Private Sub Btnprev\_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Btnprev.Click

idx = idx - 1

If idx < 0 Then

```
        idx = album.Images.Count - 1
    End If
    displayimage()
End Sub

Private Sub Btnnext_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
Btnnext.Click
    idx = (idx + 1) Mod album.Images.Count
    displayimage()
End Sub
End Class
```