ASSIGNEMENT -2

1)Write a program to display the traffic signal using timer control.

Sourcecode

```
Public Class Form1

    Dim signalIndex As Integer = 0

    Dim signals() As String = {"Red", "Yellow", "Green"}

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

        ' Set up timer

        Timer1.Interval = 3000 ' 3 seconds for each signal

        Timer1.Start()

    End Sub

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

        ' Update signal

        signalIndex = (signalIndex + 1) Mod signals.Length

        UpdateSignal()

    End Sub

    Private Sub UpdateSignal()

        ' Display current signal

        Select Case signals(signalIndex)

            Case "Red"

                PictureBox1.Visible = True

                PictureBox2.Visible = False

                PictureBox3.Visible = False

            Case "Yellow"

                PictureBox1.Visible = False

                PictureBox2.Visible = True

                PictureBox3.Visible = False

            Case "Green"

                PictureBox1.Visible = False

                PictureBox2.Visible = False
```

```vb
            PictureBox3.Visible = True

        End Select

    End Sub


    Private Sub PictureBox1_Click(sender As Object, e As EventArgs) Handles PictureBox1.Click


    End Sub
End Class
```

2)Write a program to demonstrate the Tab Control in VB.net.

Sourcecode

```vb
Public Class Form1
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click

        Label1.Text = "Button from tab 1 is clicked!!"

    End Sub

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

        Label1.Text = "Button from tab 2 is clicked!!"

    End Sub
End Class
```

3)Write a program using ErrorProvider for control to validate Mobile Number and Email ID in GUI appnlication.

Sourcecode

```vb
Public Class Form1
    Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click

        Dim mobileNumber As String = TextBox1.Text

        Dim email As String = TextBox2.Text

        If mobileNumber.Length = 10 AndAlso IsNumeric(mobileNumber) Then

            If email.ToLower().EndsWith("@gmail.com") Then

                MessageBox.Show("Successful", "Success")

            Else

                MessageBox.Show("Email must end with @gmail.com")
```

```vbnet
                End If
            Else
                MessageBox.Show("Mobile number must be a 10-digit number or number error")
            End If
        End Sub
    Private Sub Form1_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        Label1.Text = "MOBILE NUMBER"
        Label2.Text = "EMAIL ID"
        Button1.Text = "login"
    End Sub
End Class
```