

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
```

```
                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

```
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

```
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")
            End If
        End If
    End Sub

End Class
```

```
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
```