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

Public Class Form1

Private signalIndex As Integer = 0

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

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

' Start the timer when the form loads

Timer1.Interval = 2000 ' Set timer interval to 5 seconds

Timer1.Start()

End Sub

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

' Update the traffic signal every time the timer ticks

signalIndex = (signalIndex + 1) Mod signals.Length

UpdateSignal()

End Sub

Private Sub UpdateSignal()

' Display the current signal

Dim currentSignal As String = signals(signalIndex)

Label1.Text = "Traffic Signal: " & currentSignal

' Change the color of the label based on the current signal

Select Case currentSignal

Case "Red"

Label1.BackColor = Color.Red

Case "Green"

Label1.BackColor = Color.Green

Case "Yellow"

Label1.BackColor = Color.Yellow

End Select

End Sub

End Class

2)Write a program to demonstrate the Tab Control in VB.net. Public Class Form1

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

' Add tabs to the tab control

TabControl1.TabPages.Add("Tab 1")

TabControl1.TabPages.Add("Tab 2")

TabControl1.TabPages.Add("Tab 3")

' Add controls to each tab

AddControlsToTabPage(TabControl1.TabPages(0), "This is Tab 1")

AddControlsToTabPage(TabControl1.TabPages(1), "This is Tab 2")

AddControlsToTabPage(TabControl1.TabPages(2), "This is Tab 3")

End Sub

Private Sub AddControlsToTabPage(tabPage As TabPage, labelText As String)

Dim label As New Label()

label.Text = labelText

label.AutoSize = True

label.Location = New Point(50, 50)

Dim button As New Button()

button.Text = "Click Me"

button.Location = New Point(50, 80)

tabPage.Controls.Add(label)

tabPage.Controls.Add(button)

End Sub

End Class