VB.Net Lab Programs

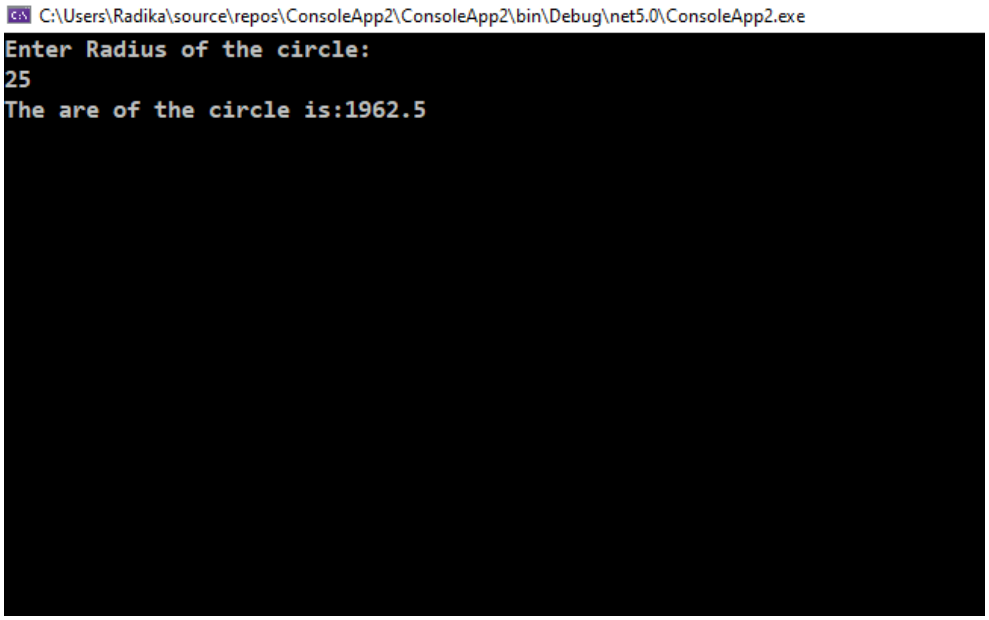
Part-B

11. VB.Net Program To calculate the area of circle for given radius using console application

Program.vb

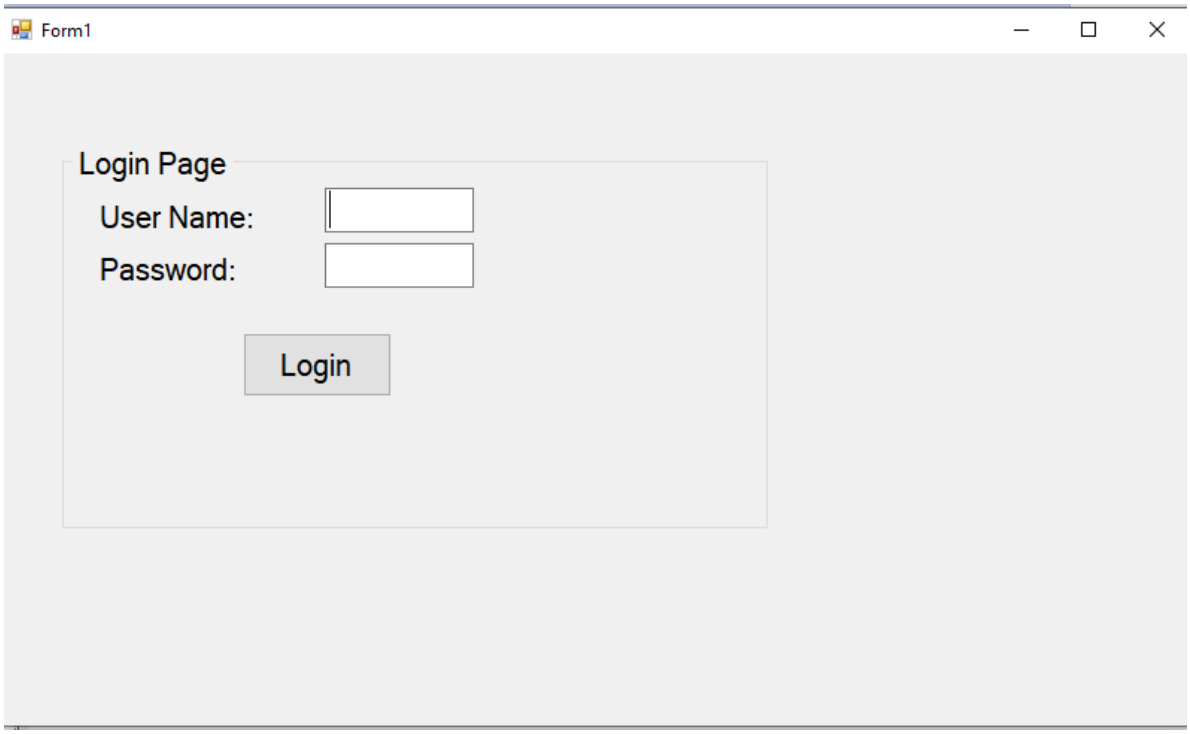
```
Imports System
Module Module1
    Sub Main()
        Dim r, area As Double
        Console.WriteLine("Enter Radius of the circle:")
        r = Console.ReadLine()
        area = 3.14 * r * r
        Console.Write("The are of the circle is:")
        Console.Write(area)
        Console.ReadKey()
    End Sub
End Module
```

Output:



12.Design a VB.Net windows form application to create a Login form without database

Form1.vb[Design]



Form1.vb

```
Public Class Form1
    Private Sub Button1_Click(sender As Object, e As EventArgs)
Handles Button1.Click
        Dim user, pass As String
        user = TextBox1.Text
        pass = TextBox2.Text
        If user = "abc" And pass = "xyz" Then
            MessageBox.Show("Login success...")
        Else
            MessageBox.Show("Login fails...")
        End If

    End Sub
End Class
```

13. VB.Net Program To calculate the Student grade by using VB.Net console application

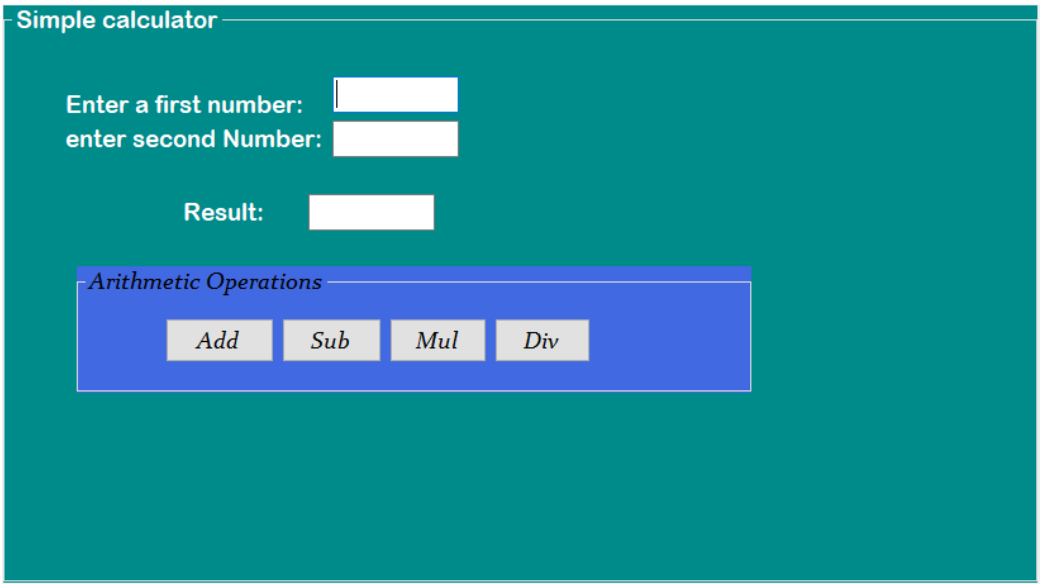
```
Imports System
Module Module1
    Sub Main()
        Dim m1, m2, m3, m4, m5, total As Integer
        Dim name, Grade As String
        Dim avg As Double
        Console.WriteLine("Enter your name:")
        name = Console.ReadLine()
        Console.WriteLine("Enter 5 subject marks:")
        m1 = Console.ReadLine()
        m2 = Console.ReadLine()
        m3 = Console.ReadLine()
        m4 = Console.ReadLine()
        m5 = Console.ReadLine()
        total = m1 + m2 + m3 + m4 + m5
        avg = total / 5
        If (avg >= 85) Then
            Grade = "A"
        ElseIf (avg >= 75 And avg < 85) Then
            Grade = "B"
        ElseIf (avg >= 65 And avg < 75) Then
            Grade = "C"
        Else
            Grade = "D"
        End If
        Console.WriteLine("the name of the student is:{0}", name)
        Console.WriteLine("marks in all the subjects
        m1=:{0}
        m2=:{1}
        m3=:{2}
        m4=:{3}
        m5=:{4}", m1, m2, m3, m4, m5)
        Console.WriteLine("the average of the student is:{0}", avg)
        Console.WriteLine("the grade of the student is:{0}", Grade)
        Console.ReadKey()

    End Sub

End Module
```

Output:

```
C:\Users\Radika\source\repos\Lab13\Lab13\bin\Debug\Lab13.exe
Enter your name:
Ashwin
Enter 5 subject marks:
76
67
86
64
56
the name of the student is:Ashwin
marks in all the subjects
        m1=:76
        m2=:67
        m3=:86
        m4=:64
        m5=:56
the average of the student is:69.8
the grade of the student is:C
```

14. **Design a VB.Net windows form application to create Simple calculator and to perform Arithmetic operations**

Form1.vb[Design]



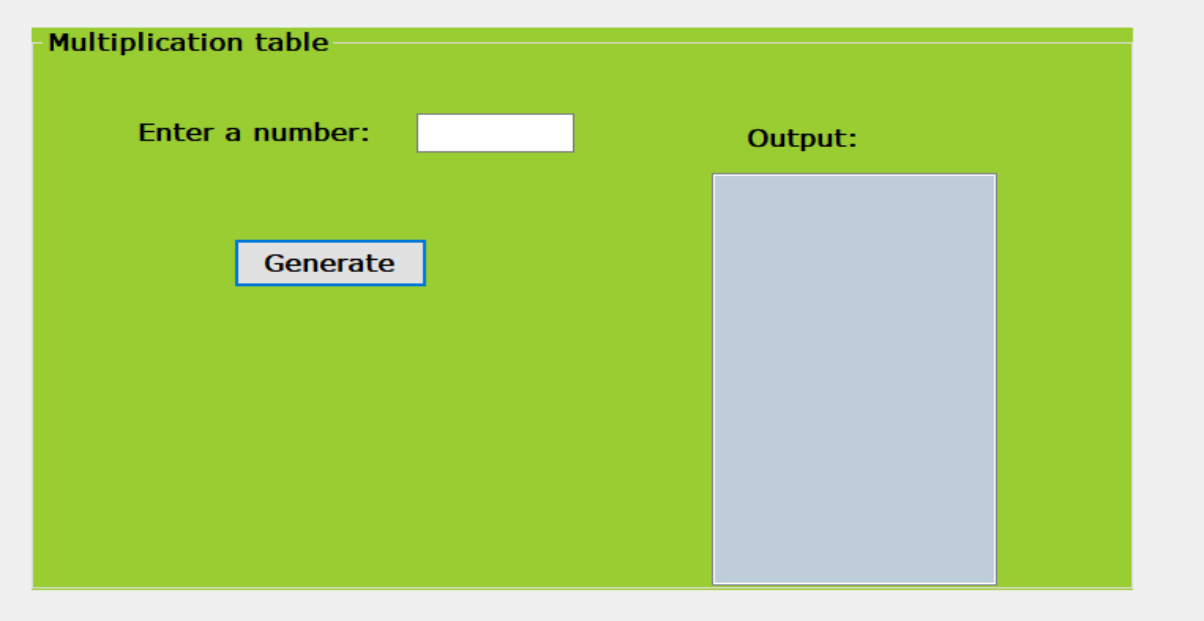
Form1.vb

```
Public Class Form1
    Private firstnum, secondnum As Integer
```

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

        firstnum = TextBoxFirst.Text
        secondnum = TextBoxSecond.Text
        TextBoxResult.Text = Val(firstnum + secondnum)
    End Sub

    Private Sub Button2_Click(sender As Object, e As EventArgs)
Handles Button2.Click
        firstnum = TextBoxFirst.Text
        secondnum = TextBoxSecond.Text
        TextBoxResult.Text = Val(firstnum - secondnum)
    End Sub

    Private Sub Button3_Click(sender As Object, e As EventArgs)
Handles Button3.Click
        firstnum = TextBoxFirst.Text
        secondnum = TextBoxSecond.Text
        TextBoxResult.Text = Val(firstnum * secondnum)
    End Sub

    Private Sub Button4_Click(sender As Object, e As EventArgs)
Handles Button4.Click
        firstnum = TextBoxFirst.Text
        secondnum = TextBoxSecond.Text
        TextBoxResult.Text = Val(firstnum / secondnum)
    End Sub
End Class
```

15.Design a windows form based application to generate the multiplication table using ListBox

MultiplicationTable.vb[Design]



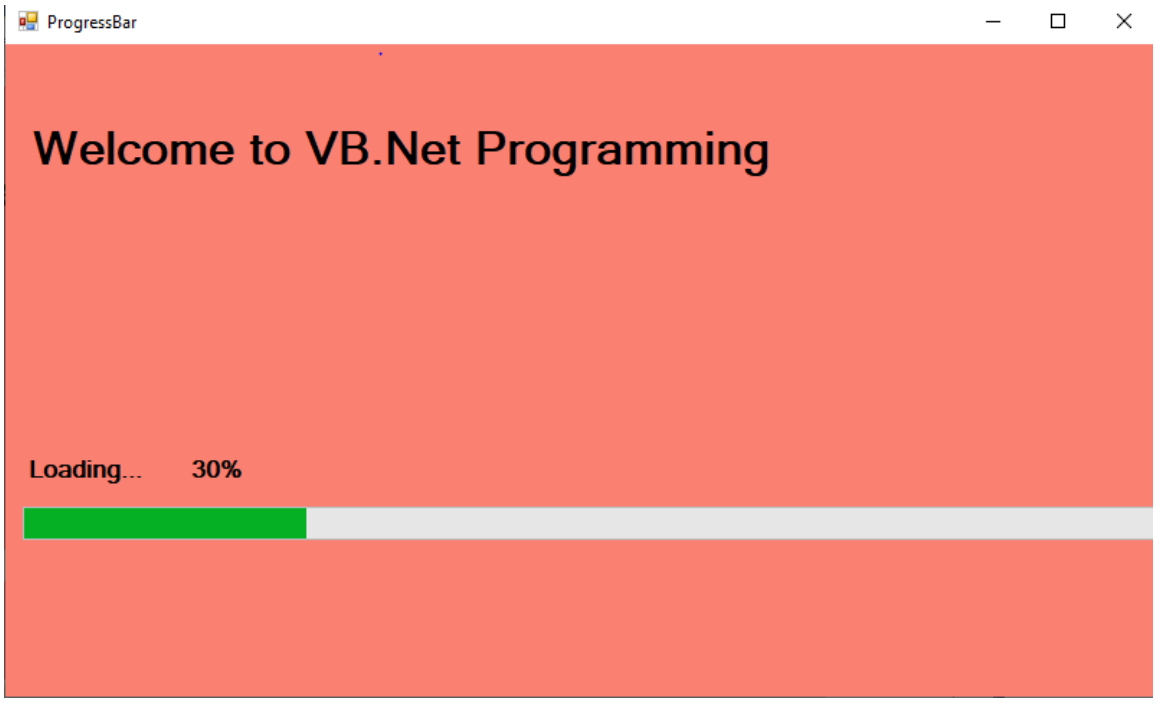
MultiplicationTable.vb

```
Public Class MultiplicationTable
    Private Sub Button1_Click(sender As Object, e As EventArgs)
Handles Button1.Click
        Dim n, i As Integer
        ListBox1.Items.Clear()
        n = txtInput.Text
        For i = 1 To 10 Step 1
            ListBox1.Items.Add(n & "X" & i & " = " & n * i)
        Next
    End Sub
End Class
```

17. Design a windows Form based application to develop the traffic signal program using select case

16.Design a windows form based application to Display the Loading of application using progress bar

ProgressBar.vb[Design]

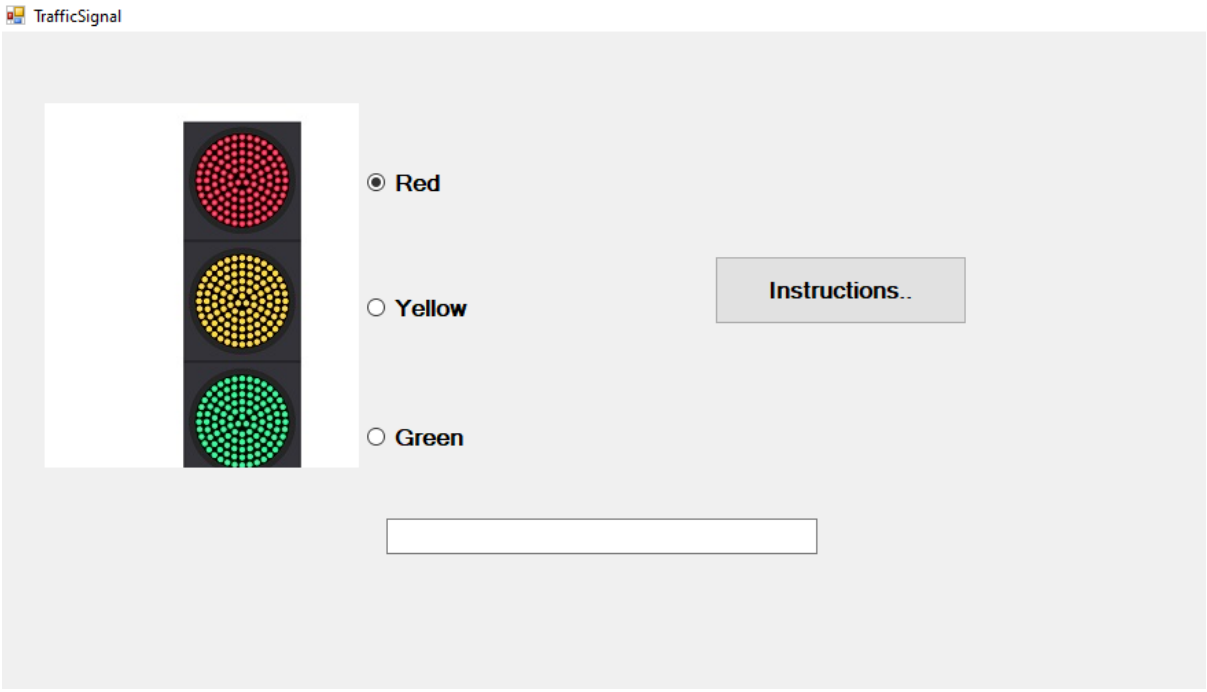


ProgressBar.vb

```
Public Class ProgressBar
    Private Sub Timer1_Tick(sender As Object, e As EventArgs)
Handles Timer1.Tick
        If ProgressBar1.Value < 100 Then
            ProgressBar1.Value = ProgressBar1.Value + 10
            Label3.Text = ProgressBar1.Value & "%"
        Else
            MultiplicationTable.Show()
            Me.Hide()
        End If
    End Sub
End Class
```

17. Design a windows form based application to Display Traffic Signal

TrafficSignal.vb[Design]

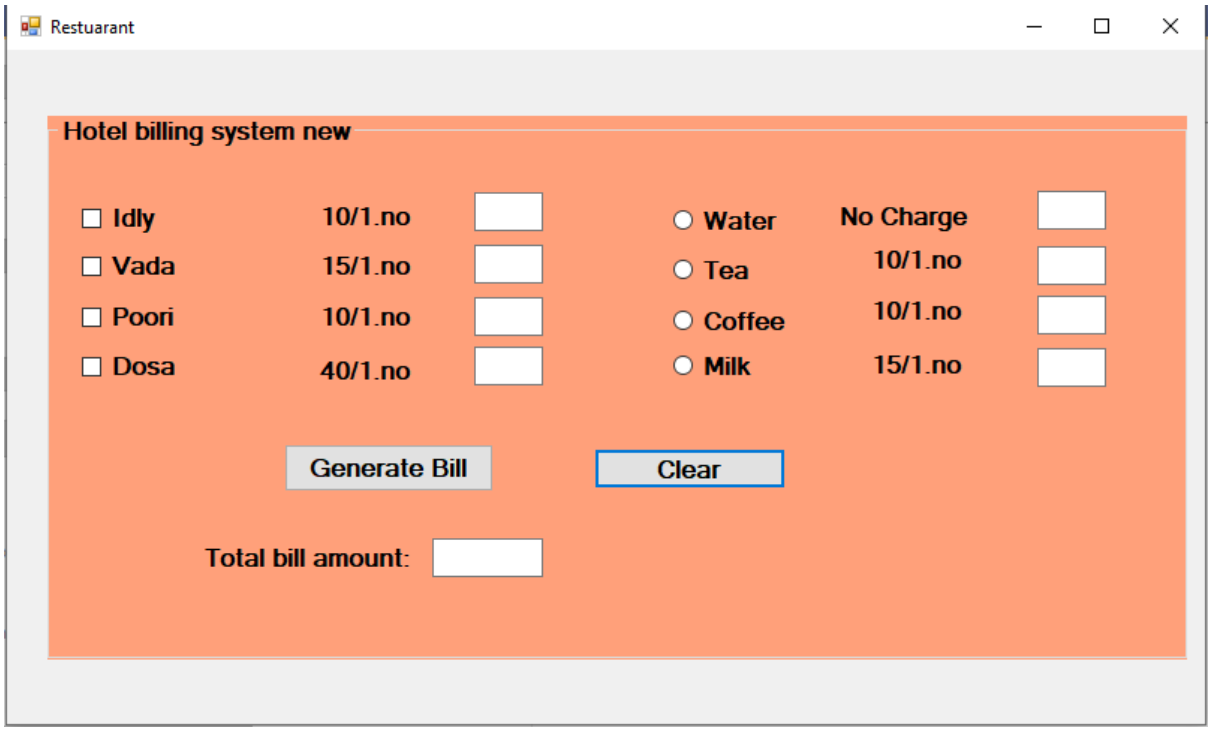


TrafficSignal.vb

```
Public Class TrafficSignal
    Private Sub Button1_Click(sender As Object, e As EventArgs)
Handles Button1.Click
        If RadioButton1.Checked = True Then
            TextBox1.Text = "Stop dont move.."
        End If
        If RadioButton2.Checked = True Then
            TextBox1.Text = "You are Ready to move.."
        End If
        If RadioButton3.Checked = True Then
            TextBox1.Text = "Go start moving.."
        End If
    End Sub
End Class
```

18. Design a windows form based application to calculate the Hotel Billing System

Billing.vb[Design]



Billing.vb

```
Public Class Billing
    Private Sub Button1_Click(sender As Object, e As EventArgs)
Handles Button1.Click
        Dim totalbill, b1, b2, b3, b4, b5, b6, b7 As Integer
        If CheckBox1.Checked = True Then
            b1 = Val(TextBoxIdly.Text) * 10
        End If
        If CheckBox2.Checked = True Then
            b2 = Val(TextBoxVada.Text) * 15
        End If
        If CheckBox4.Checked = True Then
            b3 = Val(TextBoxPoori.Text) * 10
        End If
        If CheckBox3.Checked = True Then
            b4 = Val(TextBoxDosa.Text) * 40
        End If
        If RadiobtnTea.Checked = True Then
            b5 = Val(TxtBoxTea.Text) * 10
        End If
        If RadiobtnCoffee.Checked = True Then
```

```
            b6 = Val(TxtBoxCoffee.Text) * 10
        End If
        If RadiobtnMilk.Checked = True Then
            b7 = Val(TxtBoxMilk.Text) * 15
        End If
        totalbill = Val(b1 + b2 + b3 + b4 + b5 + b6 + b7)
        TextBoxTotalbill.Text = totalbill
    End Sub
End Class
```

Part A programs

1. Write a VB.NET program to move the Text continuously from Left to Right.

MovingText.vb[Design]

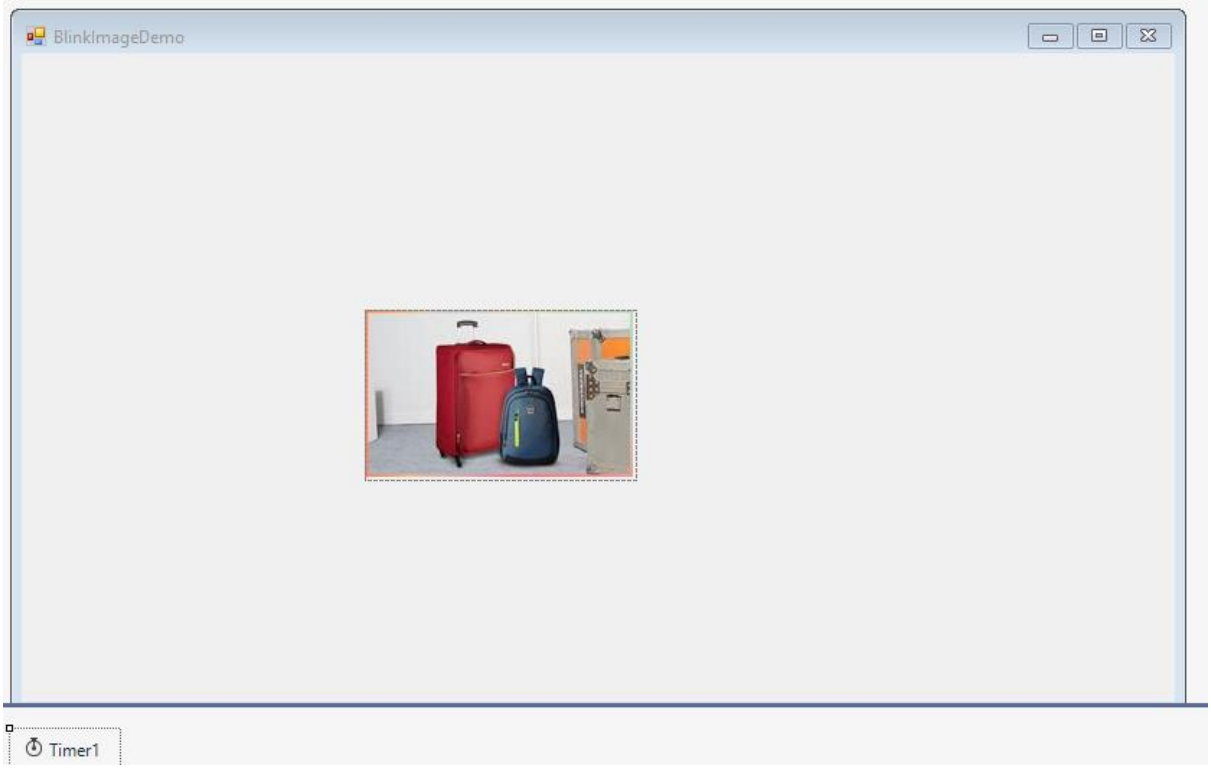
MovingText.vb

```
Public Class MovingText
    Private Sub Timer1_Tick(sender As Object, e As EventArgs)
Handles Timer1.Tick
        If Label1.Left >= Me.Width Then
            Label1.Left = -100
        Else
            Label1.Left = Label1.Left + 10
        End If
```

```
    End Sub

End Class
```

2. Write a VB.NET program for blinking an image.

BlinkingImageDemo.vb[Design]

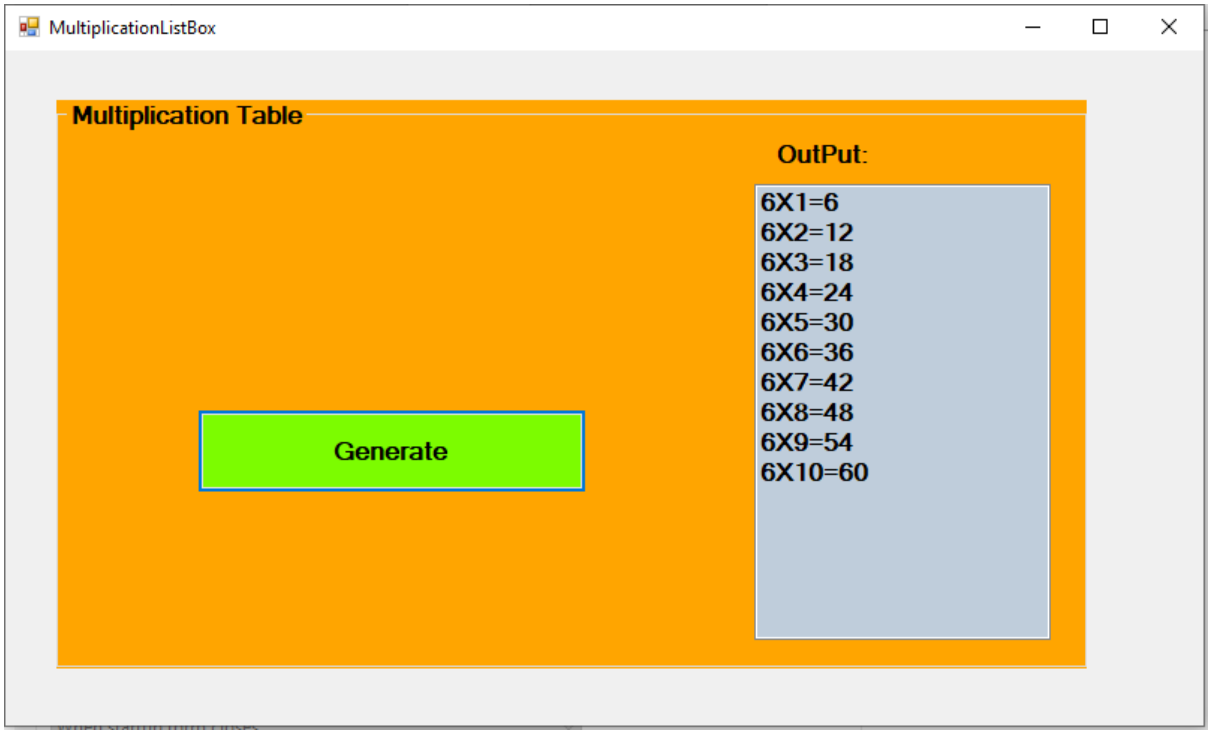


BlinkingImageDemo.vb

```
Public Class BlinkImageDemo
    Private Sub Timer1_Tick(sender As Object, e As EventArgs)
Handles Timer1.Tick
        If PictureBox1.Visible = Visible Then
            PictureBox1.Visible = False
        Else
            PictureBox1.Visible = True
        End If

    End Sub
End Class
```

3. Write a VB.NET program to accept a number from a user through InputBox and display its multiplication table into the ListBox.

MultiplicationListBox.vb[Design]



MultiplicationListBox.vb

```
Public Class MultiplicationListBox
    Private Sub Button1_Click(sender As Object, e As EventArgs)
Handles Button1.Click
        Dim n, i As Integer
        n = InputBox("Enter a number to generate multiplication
table")
        ListBox1.Items.Clear()
        For i = 1 To 10 Step 1
            ListBox1.Items.Add(n & "X" & i & "=" & n * i)
        Next
    End Sub
End Class
```