Program 1- **QUESTION**

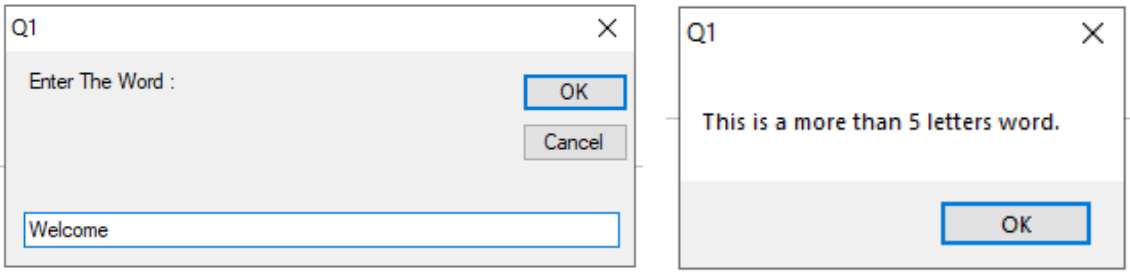
Create a Visual Application 2010 to determine the length of a given word using select case up to 5 letters. A word is taken as input through an Input box, and the length is shown in your form through message box control.
Eg :

Input : Welcome
Output : This is a more than 5 letters word.

Program 1- **PROCEDURE**

```
Public Class Form1

    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
        Dim t As String
        Dim l As Integer

        t = InputBox("Enter The Word : ")
        l = t.Length
        If (l > 5) Then
            MsgBox("This is a more than 5 letters word.")
        Else
            MsgBox("This is a less than 5 letters word.")
        End If

    End Sub
End Class
```

Program 1- **OUTPUT**

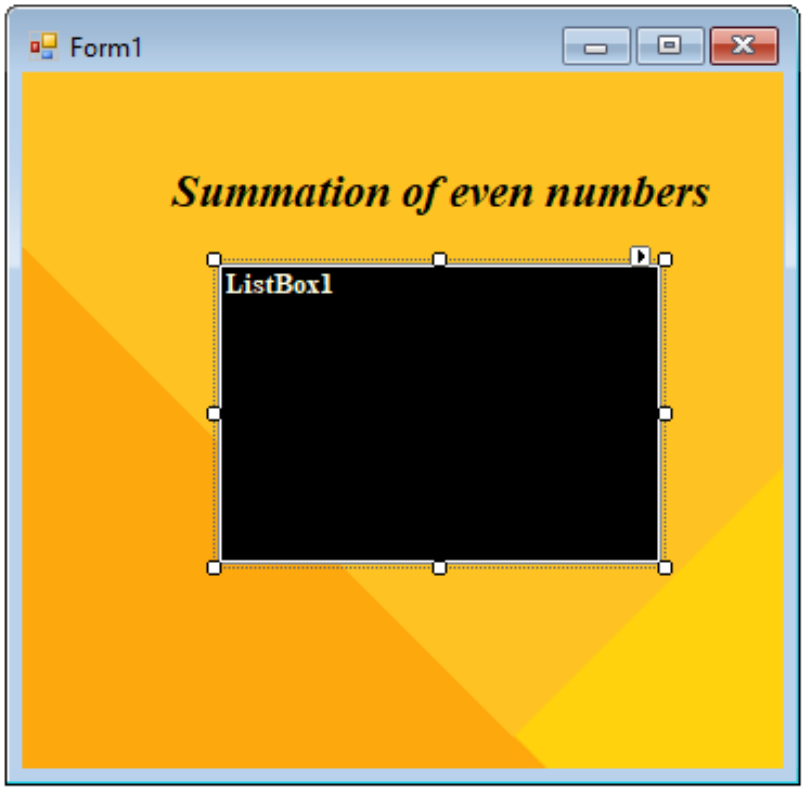


Result : This design is verified.

Program 2- **QUESTION**

Write a Visual Basic 2010 program to display summation of even numbers using for loop. The N Number is taken through input box and displays your results in List box control.

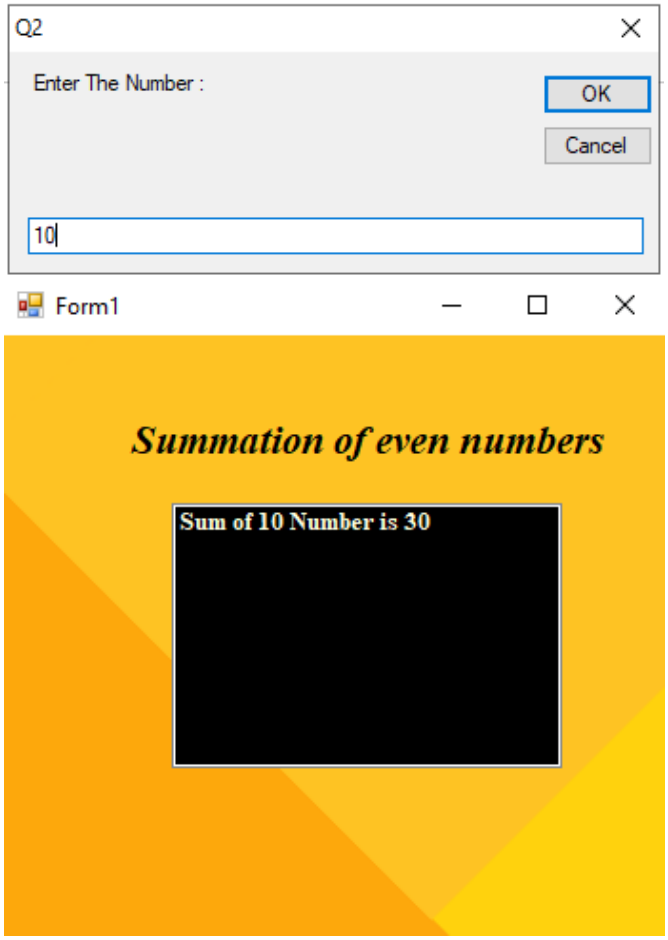
Program 2- **DESIGN**



Program 2- **PROCEDURE**

```
Public Class Form1

    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
        Dim n, i, s As Integer
        s = 0
        n = InputBox("Enter The Number : ")
        For i = 0 To n Step 2
            s = s + i

        Next i
        ListBox1.Items.Add(("Sum of ") & (n) & (" Number is ") &
(s))
    End Sub
End Class
```

Program 2- **OUTPUT**



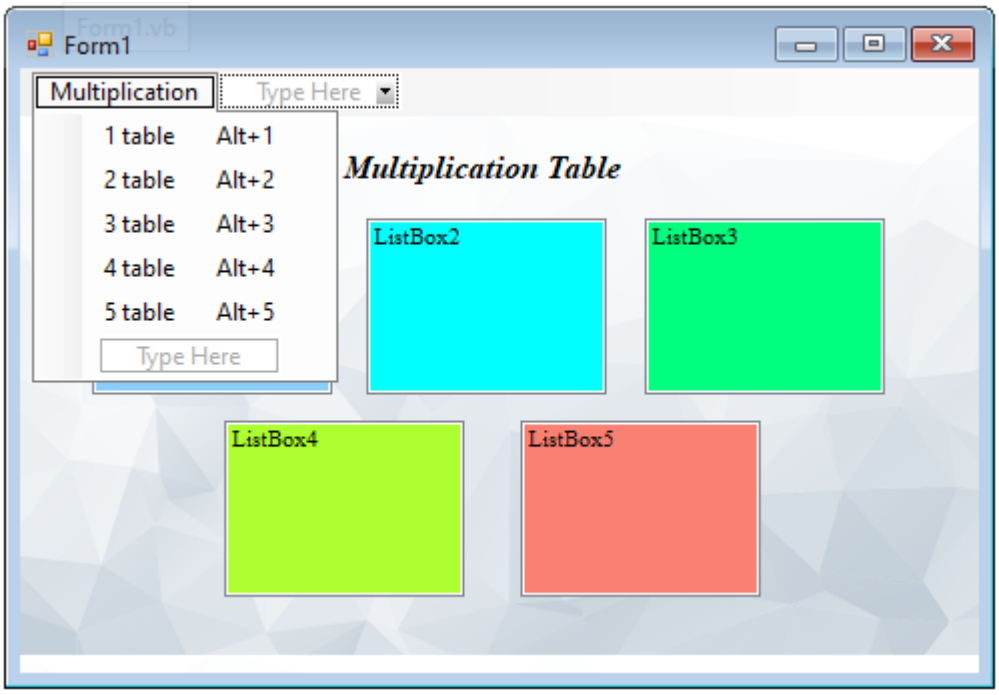
Result : This design is verified.

Program 3- **QUESTION**

Write a Visual Basic 2010 program to print Multiplication table from 1table to 5 table (till 5 series) in the List Box Control using menu strip control.(Note: Use For Loop and differentiate all tables with different colors)
Main Menu: Multiplication Table
Sub Menus:

1. Table Shortcut key : Alt+1
2. Table Shortcut key : Alt+2
3. Table Shortcut key : Alt+3
4. Table Shortcut key : Alt+4
5. Table Shortcut key : Alt+5

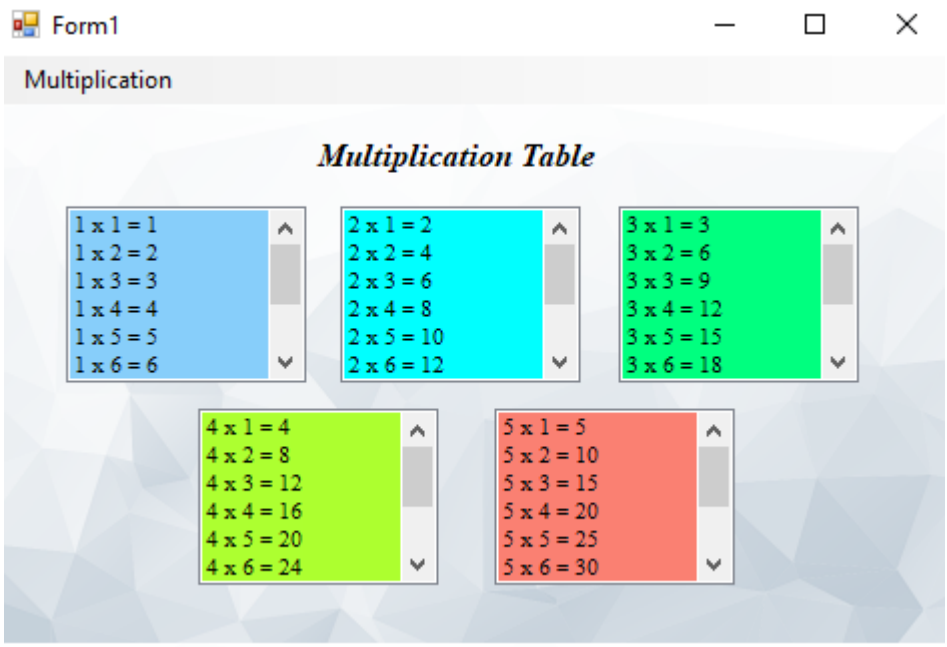
Program 3- **DESIGN**



Program 3- **PROCEDURE**

```
Public Class Form1

    Private Sub TableToolStripMenuItem_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
TableToolStripMenuItem.Click
        Dim i As Integer
        For i = 1 To 10
            ListBox1.Items.Add("1 x " & i & " = " & (1 * i))
        Next
    End Sub

    Private Sub TableToolStripMenuItem1_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
TableToolStripMenuItem1.Click
        Dim i As Integer
        For i = 1 To 10
            ListBox2.Items.Add("2 x " & i & " = " & (2 * i))
        Next
    End Sub

    Private Sub TableToolStripMenuItem2_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
TableToolStripMenuItem2.Click
        Dim i As Integer
        For i = 1 To 10
            ListBox3.Items.Add("3 x " & i & " = " & (3 * i))
        Next
    End Sub

    Private Sub TableToolStripMenuItem3_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
TableToolStripMenuItem3.Click
        Dim i As Integer
        For i = 1 To 10
            ListBox4.Items.Add("4 x " & i & " = " & (4 * i))
        Next
    End Sub

    Private Sub TableToolStripMenuItem4_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
TableToolStripMenuItem4.Click
        Dim i As Integer
        For i = 1 To 10
            ListBox5.Items.Add("5 x " & i & " = " & (5 * i))
        Next
    End Sub

End Class
```

Program 3- **OUTPUT**



Result : This design is verified.

Question 4 Next Page……

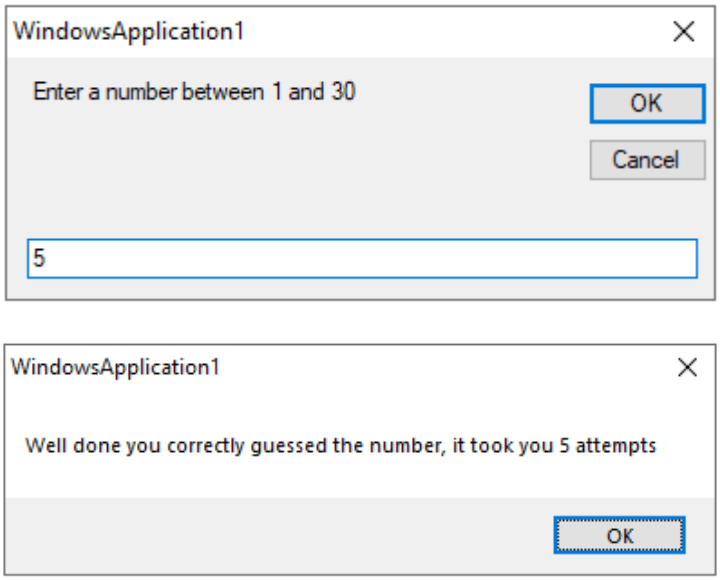
Program 4- **QUESTION**

Write a Visual Basic 2010 program to ask users to enter the guess number given by the input box. It will ask you to enter the guess number until the number is entered correctly. If the guess number is correct when they enter the number, it will tell them how many attempts it took.

Program 4- **PROCEDURE**

```
Public Class Form1

    Private Sub Form1_Load(sender As System.Object, e As
System.EventArgs) Handles MyBase.Load
        Dim answer As Integer = 9
        Dim attempts As Integer = 0
        Dim userentry As String = ""
        While answer.ToString <> userentry
            userentry = InputBox("Enter a number between 1 and 30")
            attempts = attempts + 1
        End While
        MessageBox.Show("Well done you correctly guessed the number,
it took you " & attempts.ToString & " attempts")
    End Sub
End Class
```

Program 4- **OUTPUT**



Result : This design is verified.

Program 5- **QUESTION**

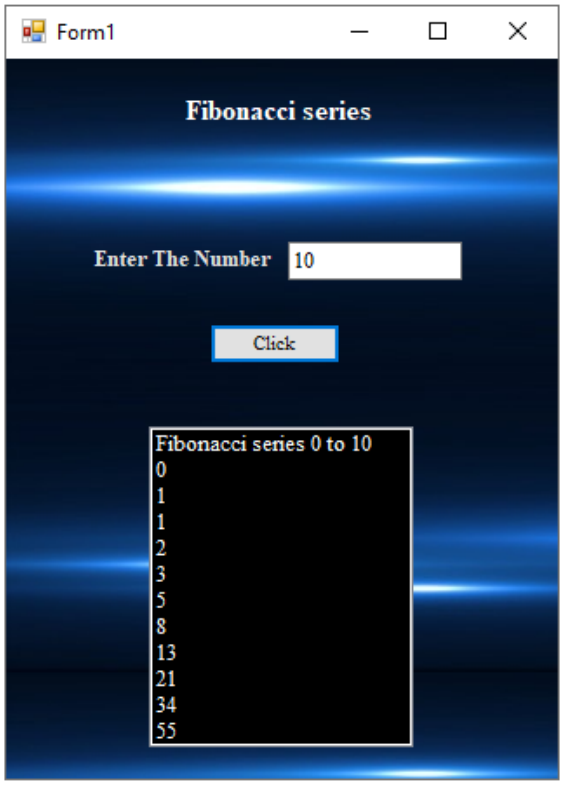
Design a Visual Basic 2010 form to create Fibonacci series in List box control.

Program 5- **DESIGN**

Program 5- **PROCEDURE**

```
Public Class Form1

    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles Button1.Click
        Dim a As Integer = 0
        Dim b As Integer = 1
        Dim f, i, n As Integer
        n = TextBox1.Text
        ListBox1.Items.Add("Fibonacci series 0 to " & (n))
        ListBox1.Items.Add(0)
        ListBox1.Items.Add(1)
        For i = 2 To n
            f = a + b
            a = b
            b = f
            ListBox1.Items.Add(f)
        Next
    End Sub
End Class
```

Program 5- **OUTPUT**



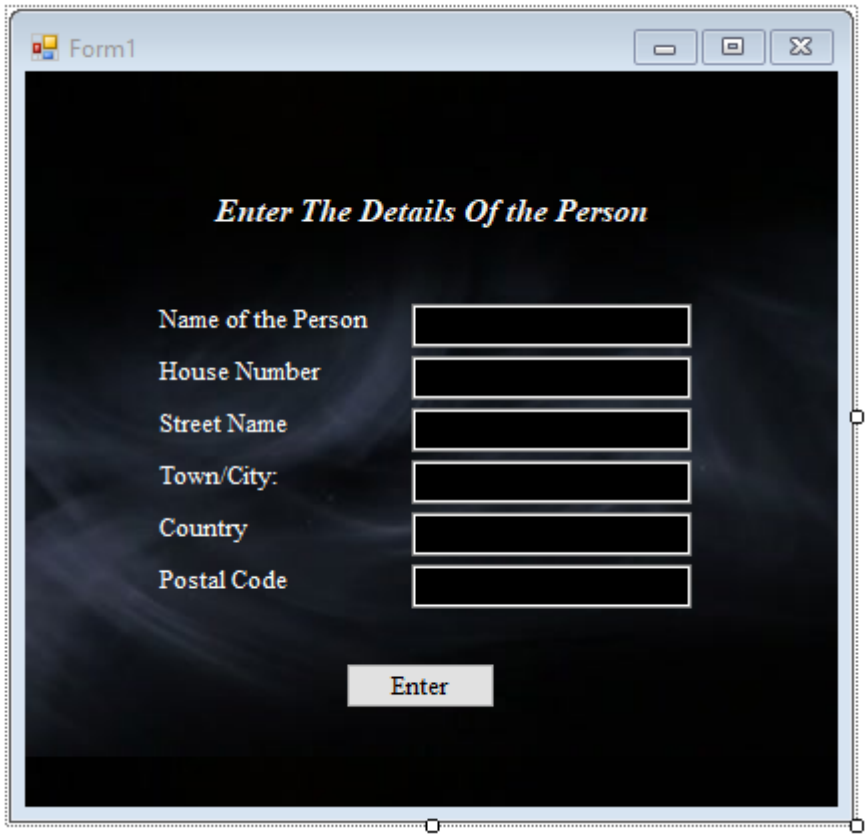
Result : This design is verified.

Program 6- **QUESTION**

Create the Visual Basic 2010 application for printing a person's address details using the required controls and display the following details included in all text box controls via the message box control

Person Name:
House Number:
Street Name:
Town/City:
Country:
Postal Code:

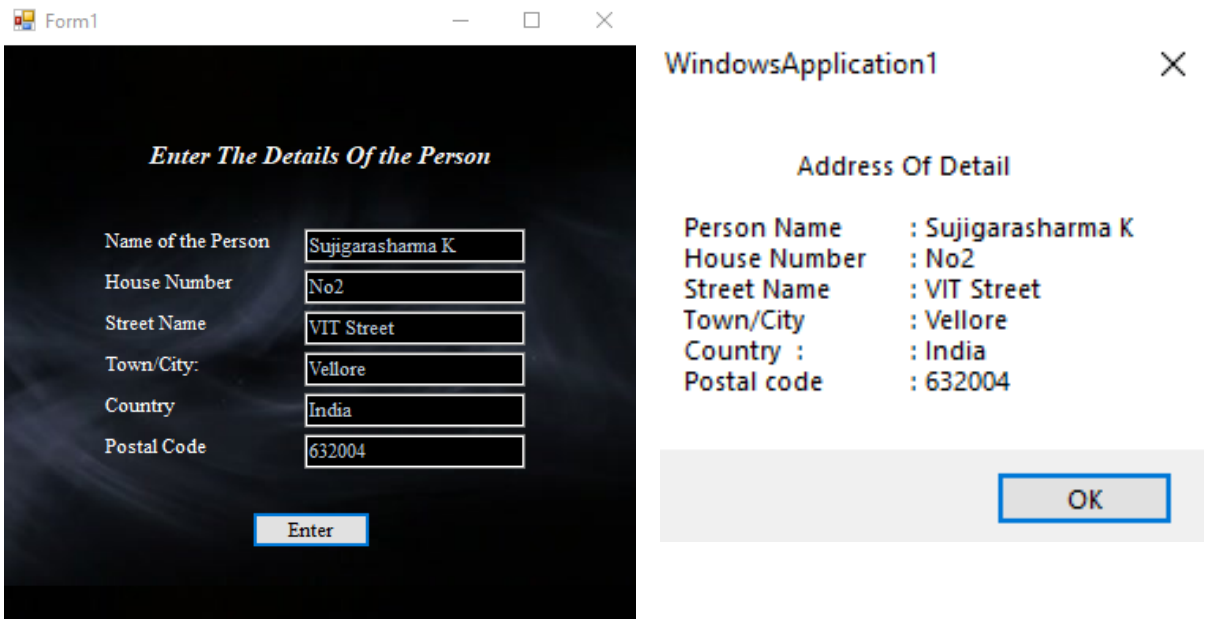
Program 6- **DESIGN**



Program 6- **PROCEDURE**

```
Public Class Form1

    Private Sub Button1_Click_1(ByVal sender As System.Object, ByVal
e As System.EventArgs) Handles Button1.Click

        Dim a, b, c, d, f, g As String
        a = TextBox1.Text
        b = TextBox2.Text
        c = TextBox3.Text
        d = TextBox4.Text
        f = TextBox5.Text
        g = TextBox6.Text
        MsgBox(vbTab & "Address Of Detail" & vbTab & vbNewLine &
vbNewLine & "Person Name " & vbTab & ": " + a & vbNewLine & "House
Number " & vbTab & ": " + b & vbNewLine & "Street Name " & vbTab &
": " + c & vbNewLine & "Town/City " & vbTab & ": " + d & vbNewLine &
"Country " & vbTab & ": " + f & vbNewLine & "Postal code " & vbTab &
": " + g)

    End Sub
End Class
```

Program 6- **OUTPUT**



Result : This design is verified.

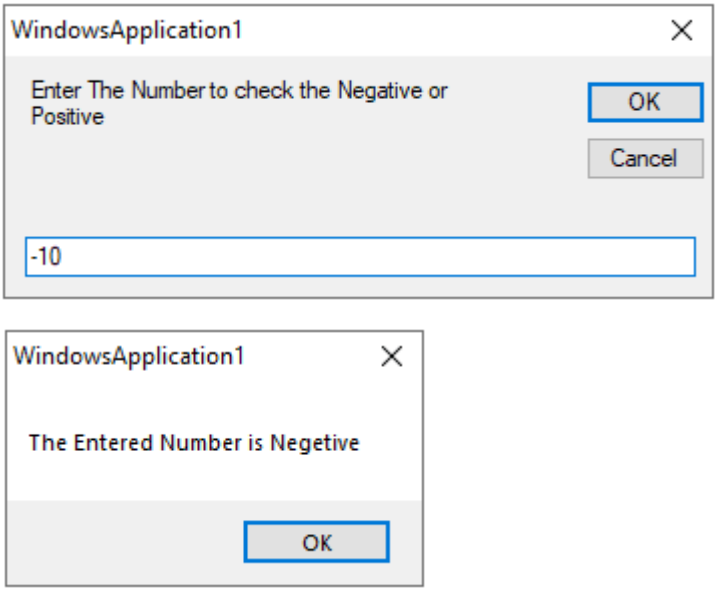
Program 7- **QUESTION**

Write a Visual Basic 2010 program to categorize any number entered according to its sign and display the phrase when the number is negative (i.e. show the negative number through message box it is a negative number), show the phrase when the number is positive (i.e. show the positive number through message box it is a positive number), otherwise show the phrase (i.e. The word positive or not negative) and develop a program for creating the pattern.

Program 7- **PROCEDURE**

```
Public Class Form1

    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles MyBase.Load
        Dim a As Integer
        a = InputBox("Enter The Number to check the Negative or Positive")
        If a < 0 Then
            MsgBox("The Entered Number is Negetive")
        ElseIf a > 0 Then
            MsgBox("The Entered Number is Positive")
        End If
    End Sub
End Class
```

Program 7- **OUTPUT**

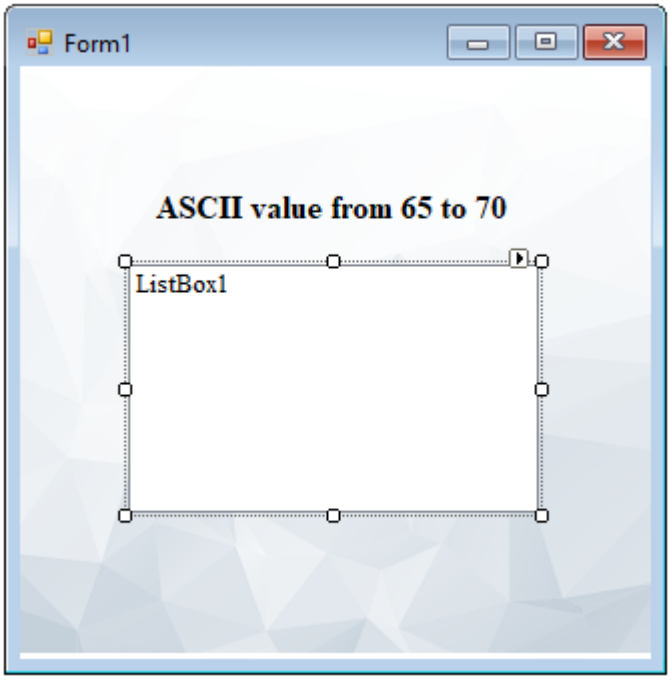


Result : This design is verified.

Program 8- **QUESTION**

Write a Visual Basic 2010 program to print equivalent character of the given ASCII value from 65 to 70 in the list box control using for loop.

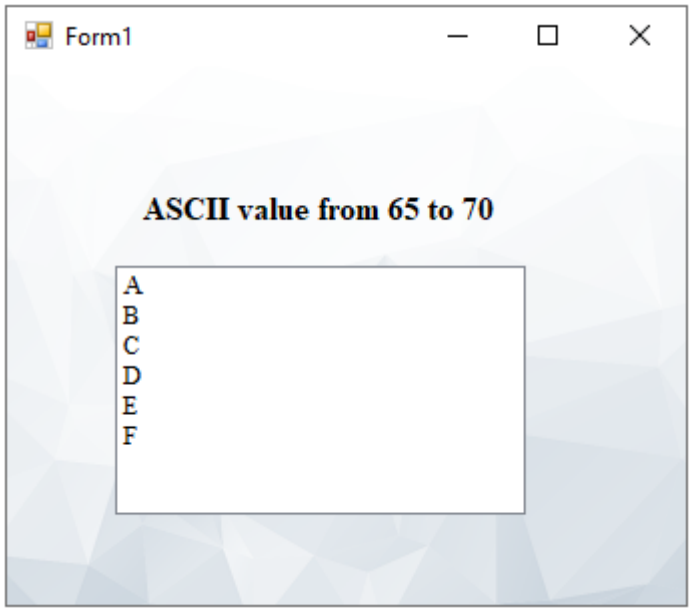
Program 8- **DESIGN**



Program 8- **PROCEDURE**

```
Public Class Form1

    Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles MyBase.Load
        Dim i As Integer
        For i = 65 To 70
            ListBox1.Items.Add(Chr(i))
        Next
    End Sub
End Class
```

Program 8- **OUTPUT**



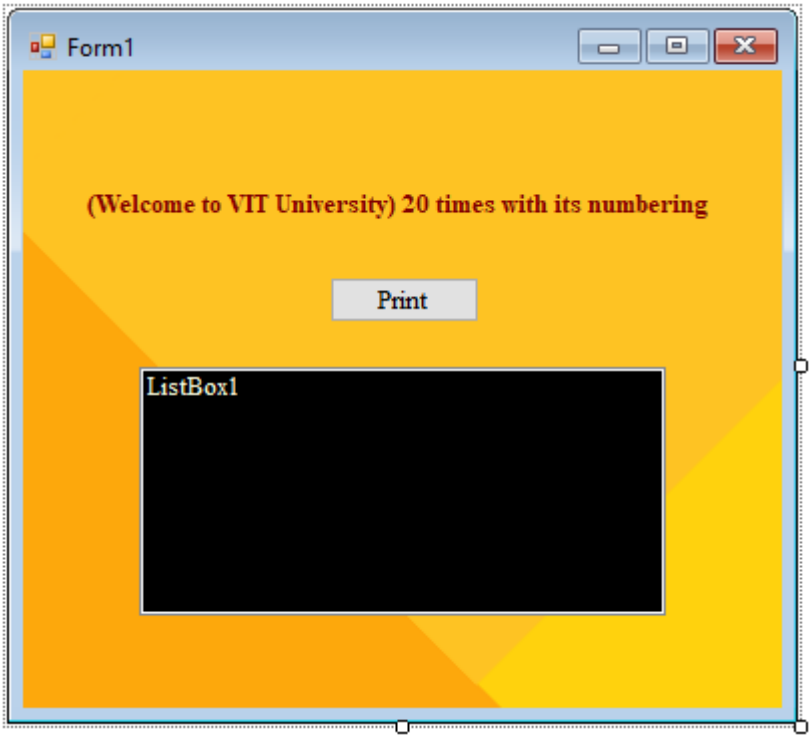
Result : This design is verified.

Question 9 Next Page……

Program 9- **QUESTION**

Write a Visual Basic 2010 program to print (Welcome to VIT University) 20 times with its numbering in the list box control using do while loop.

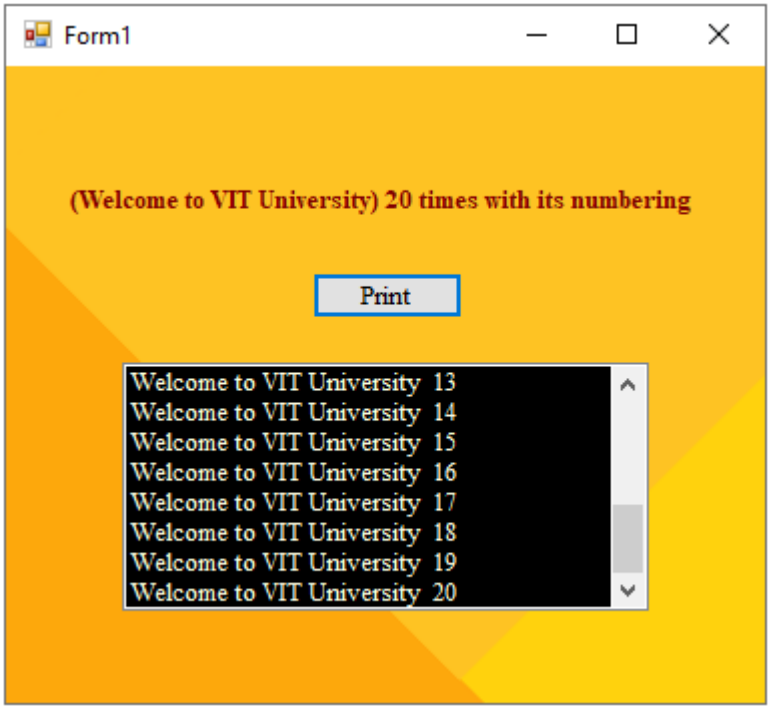
Program 9- **DESIGN**



Program 9- **PROCEDURE**

```
Public Class Form1

    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e
As System.EventArgs) Handles Button1.Click
        Dim i As Integer = 0
        Do While i <= 19
            i = i + 1
            ListBox1.Items.Add("Welcome to VIT University  " & i)
        Loop
    End Sub
End Class
```

Program 9- **OUTPUT**



Result : This design is verified.

Question 10 Next Page……

Program 10- **QUESTION**

Apply the following string functions for the given strings which is entered in the Text Box1 and Text Box 2 using menu strip control.

String1 (Textbox 1) = The Controls are Categorized into Common Controls, Menus, Toolbars, Components, Printings and Dialogs.
String2(Textbox 2) = " Some of the most used common controls are Button, LabeL, ComboBox, ListBox, PictureBoX, TextBox etc."

a. Print Length of the given string 2 in the Textbox 3 control.

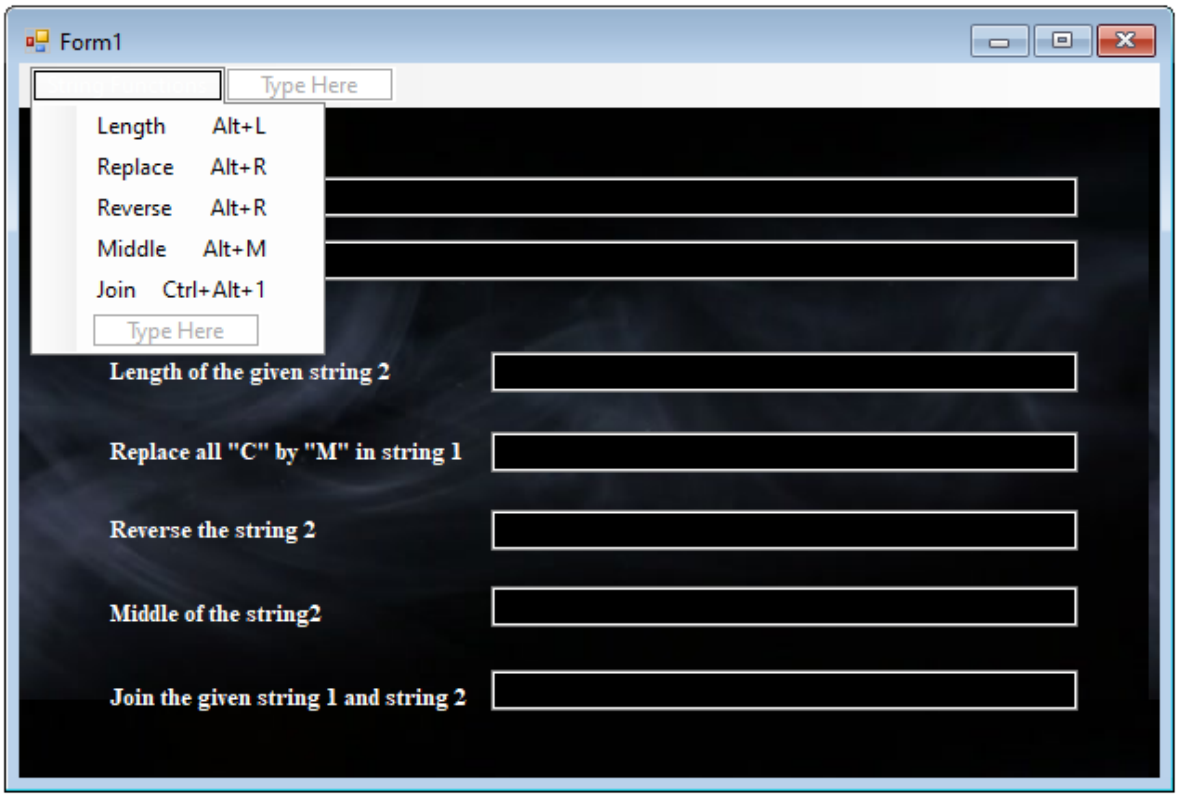
b. Replace all "C" by "M in the given string 1 and display the output in Textbox Control 4.

c. Reverse the string 2 and display the output in the Textbox Control 5.

d. Print middle of the string2 from "P" to "X" in the Textbox Control 6.

e. Join the given string 1 and string 2 and display the output in the Textbox control 7.

Program 10- **DESIGN**



Program 10- **PROCEDURE**

```
Public Class Form1
    Dim a As String
    Dim b As String
    Private Sub LengthToolStripMenuItem_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
LengthToolStripMenuItem.Click
        b = TextBox2.Text
        TextBox3.Text = Len(b)
    End Sub

    Private Sub ReplaceToolStripMenuItem_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
ReplaceToolStripMenuItem.Click
        a = TextBox1.Text
        TextBox4.Text = a.Replace("C", "M")
    End Sub

    Private Sub ReverseToolStripMenuItem_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
ReverseToolStripMenuItem.Click
        b = TextBox2.Text
        TextBox5.Text = StrReverse(b)
    End Sub

    Private Sub MiddleToolStripMenuItem_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
MiddleToolStripMenuItem.Click
        b = TextBox2.Text
        TextBox6.Text = Mid(b, 75, 10)
    End Sub

    Private Sub JoinToolStripMenuItem_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
JoinToolStripMenuItem.Click
        Dim c As String
        a = TextBox1.Text
        b = TextBox2.Text
        c = a & b
        TextBox7.Text = c

    End Sub
End Class
```

Program 10- **OUTPUT**