

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
```

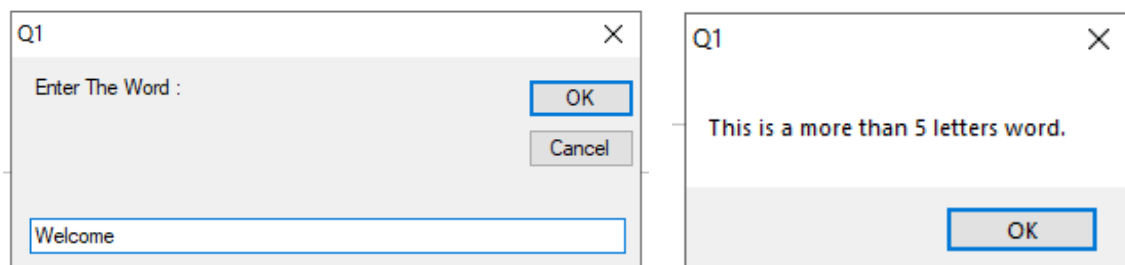
```
            MsgBox("This is a less than 5 letters word.")
```

```
        End If
```

```
    End Sub
```

```
End Class
```

Program 1- OUTPUT

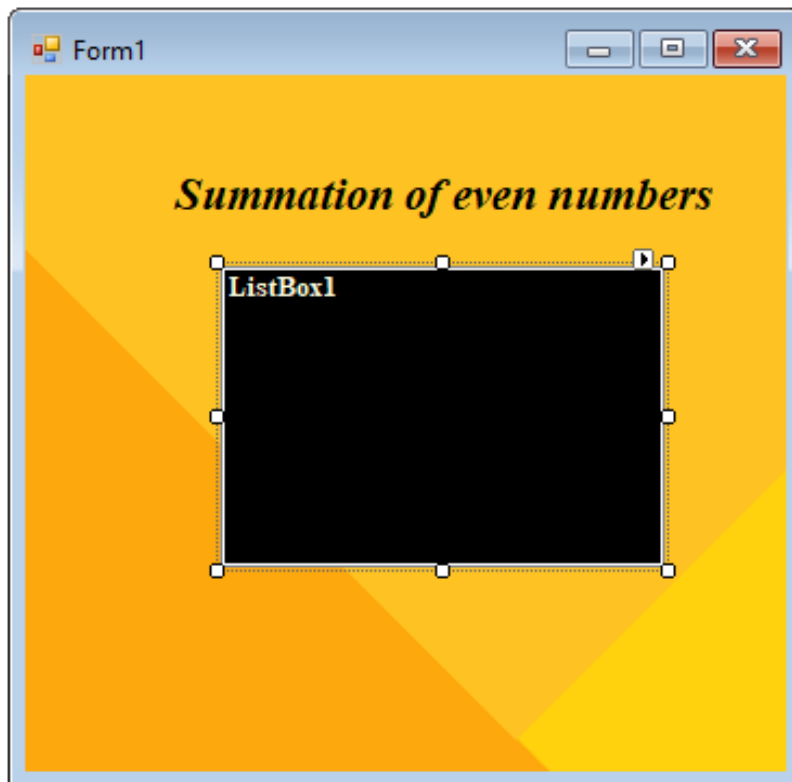


Result : This design is verified.

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

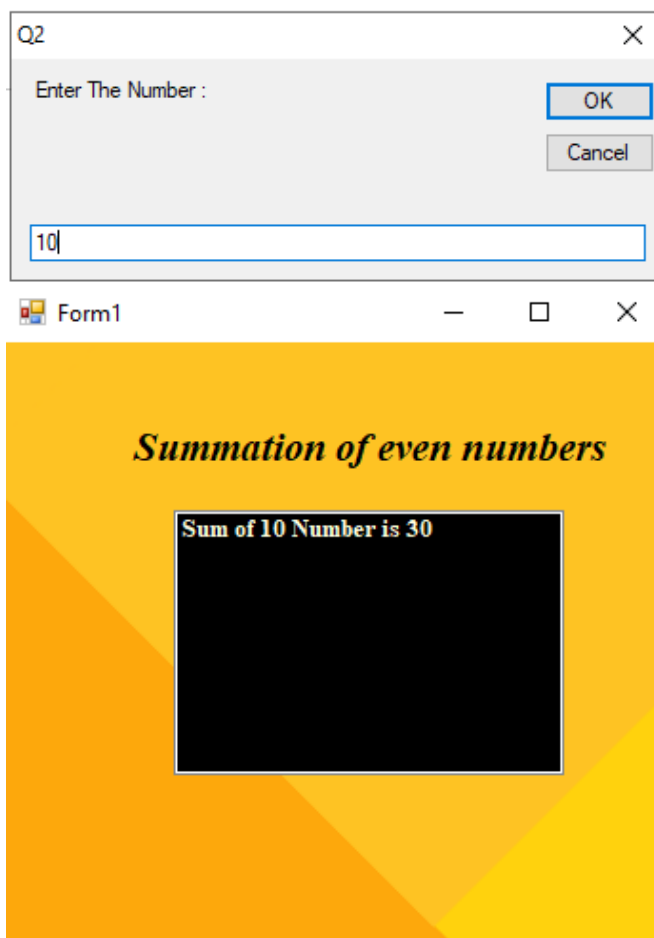


Program 2- PROCEDURE

```
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

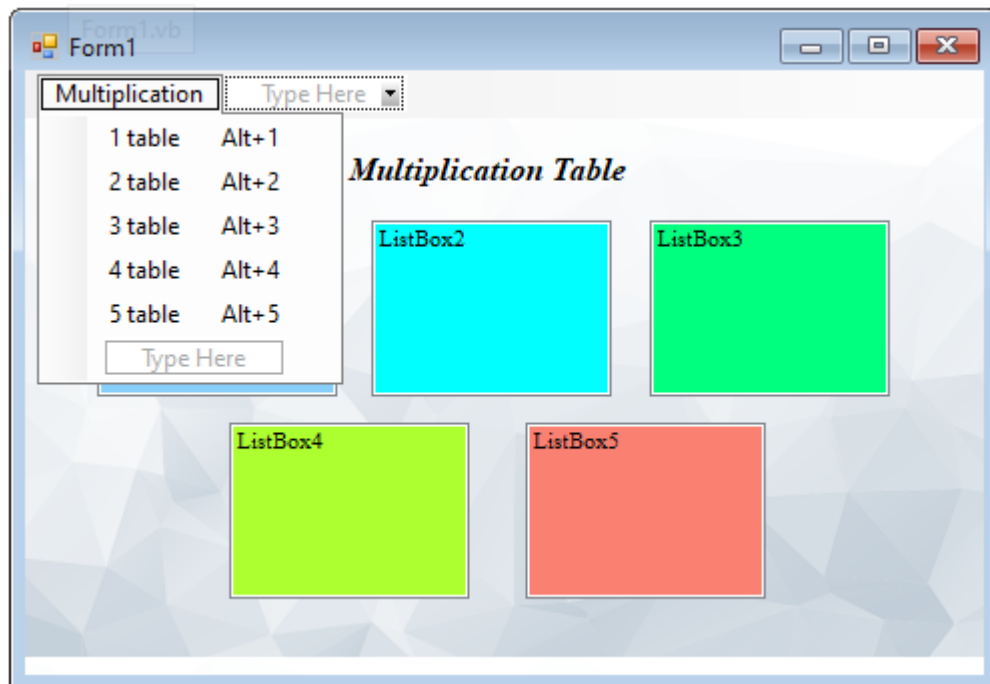
Write a Visual Basic 2010 program to print Multiplication table from 1 table to 5 table (till 5 series) in the List Box Control using menu strip control.(Note: Use For Loop and differentiate all tables with different colors)

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

Form1

Multiplication

Multiplication Table

1 x 1 = 1	2 x 1 = 2	3 x 1 = 3
1 x 2 = 2	2 x 2 = 4	3 x 2 = 6
1 x 3 = 3	2 x 3 = 6	3 x 3 = 9
1 x 4 = 4	2 x 4 = 8	3 x 4 = 12
1 x 5 = 5	2 x 5 = 10	3 x 5 = 15
1 x 6 = 6	2 x 6 = 12	3 x 6 = 18

4 x 1 = 4	5 x 1 = 5
4 x 2 = 8	5 x 2 = 10
4 x 3 = 12	5 x 3 = 15
4 x 4 = 16	5 x 4 = 20
4 x 5 = 20	5 x 5 = 25
4 x 6 = 24	5 x 6 = 30

Result : This design is verified.

Question 4 Next Page.....

Program 4- QUESTION

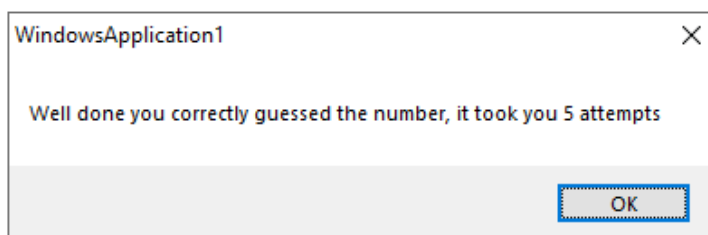
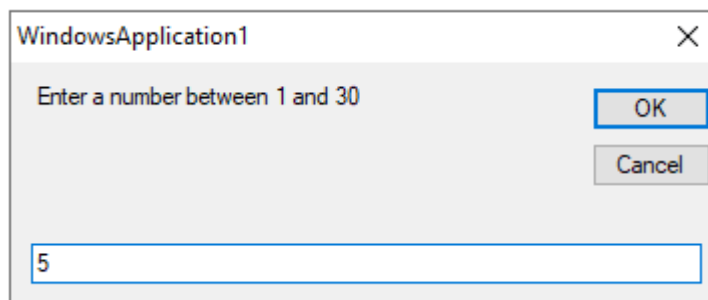
Write a Visual Basic 2010 program to ask users to enter the guess number given by the input box. It will ask you to enter the guess number until the number is entered correctly. If the guess number is correct when they enter the number, it will tell them how many attempts it took.

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

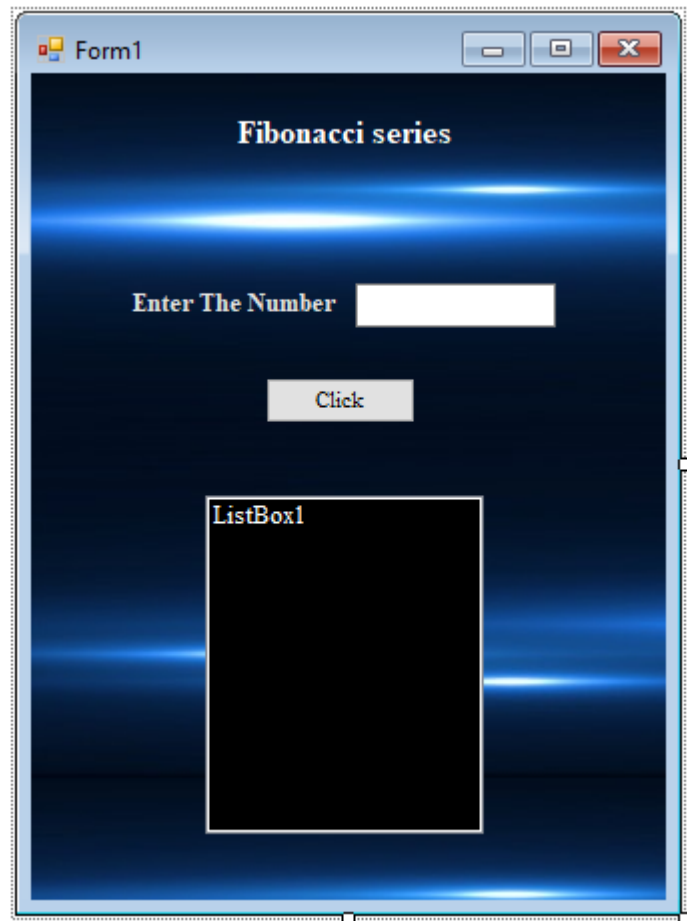


Result : This design is verified.

Program 5- QUESTION

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

Program 5- DESIGN

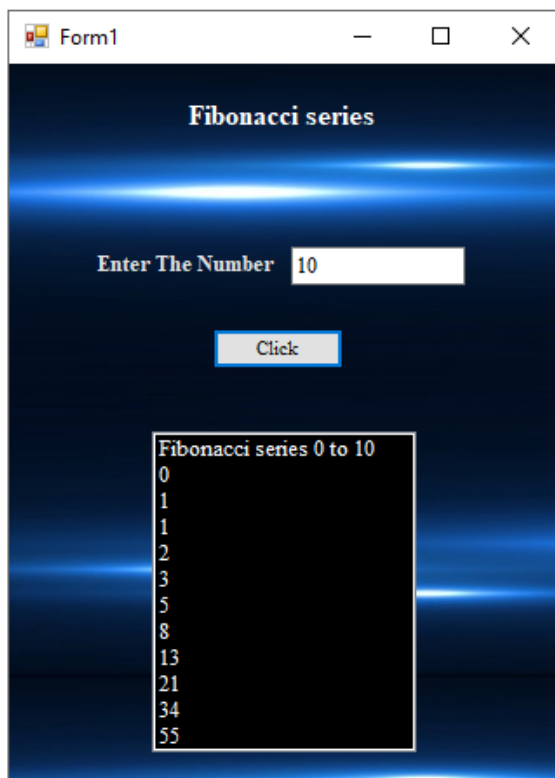


Program 5- PROCEDURE

```
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

Form1

Enter The Details Of the Person

Name of the Person

House Number

Street Name

Town/City:

Country

Postal Code

Enter

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

The screenshot displays a Windows application window titled 'Form1'. Inside the window, there is a form titled 'Enter The Details Of the Person'. The form contains six text boxes for input: 'Name of the Person' (containing 'Sujigarasharma K'), 'House Number' (containing 'No2'), 'Street Name' (containing 'VIT Street'), 'Town/City' (containing 'Vellore'), 'Country' (containing 'India'), and 'Postal Code' (containing '632004'). Below these text boxes is an 'Enter' button. To the right of the form, a message box titled 'Address Of Detail' is displayed. The message box contains the following text: 'Person Name : Sujigarasharma K', 'House Number : No2', 'Street Name : VIT Street', 'Town/City : Vellore', 'Country : India', and 'Postal code : 632004'. At the bottom of the message box is an 'OK' button.

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 Negative")

ElseIf a > 0 Then

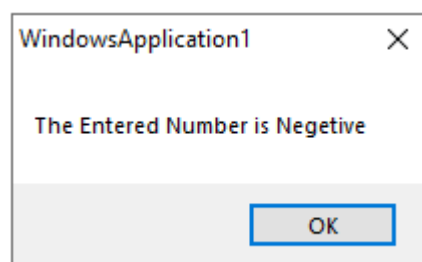
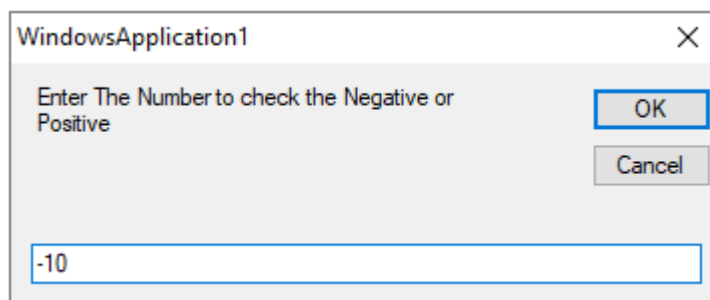
MsgBox("The Entered Number is Positive")

End If

End Sub

End Class

Program 7- OUTPUT

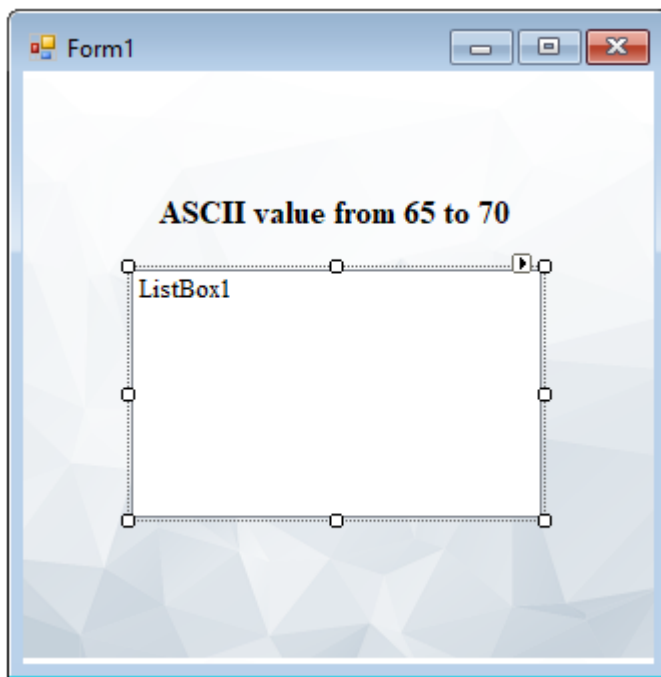


Result : This design is verified.

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
```

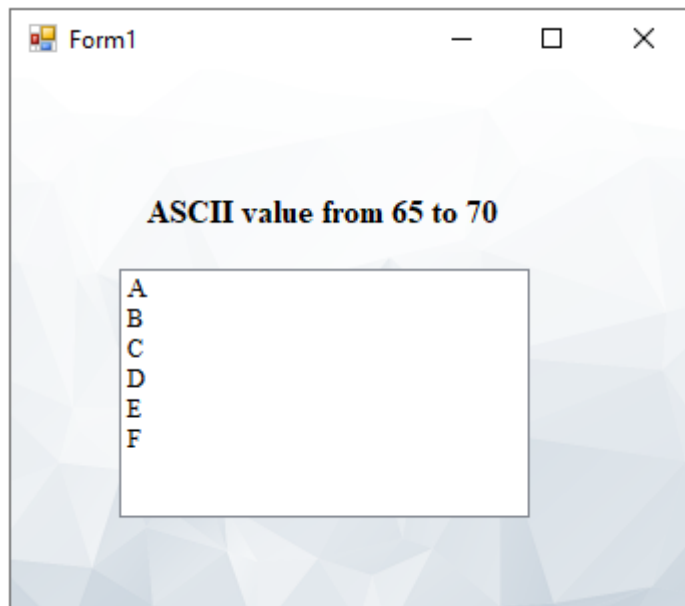
```
            ListBox1.Items.Add(Chr(i))
```

```
        Next
```

```
    End Sub
```

```
End Class
```

Program 8- **OUTPUT**



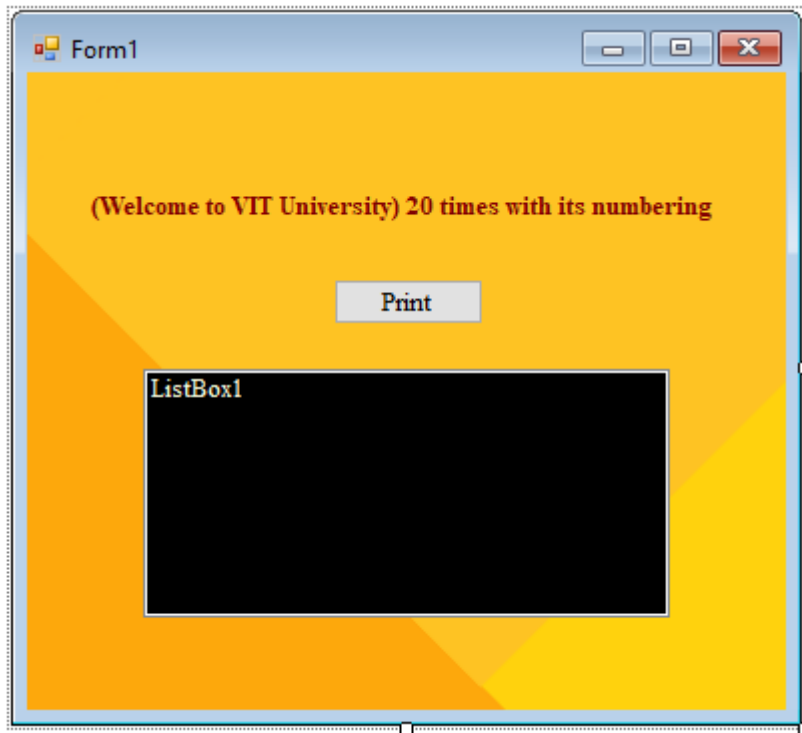
Result : This design is verified.

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
```

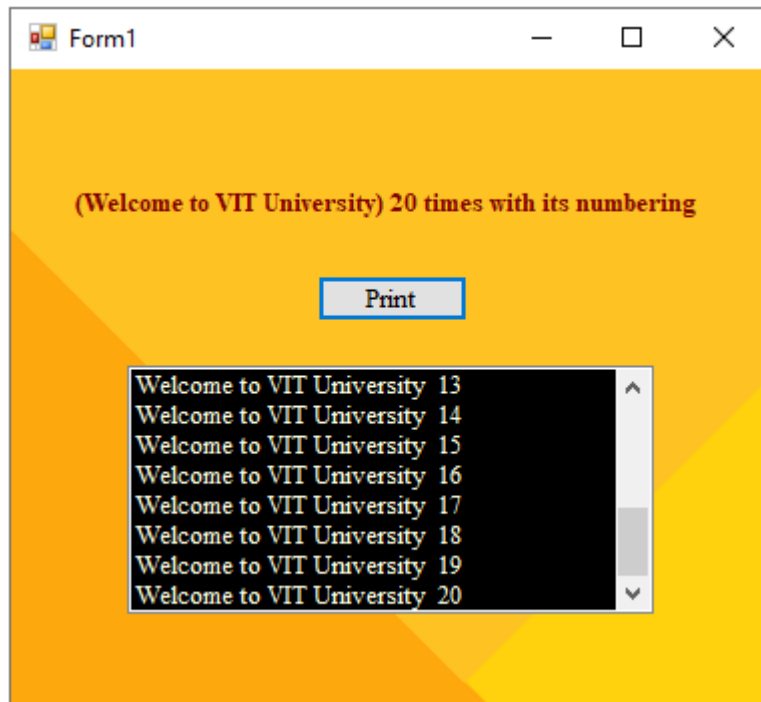
```
            ListBox1.Items.Add("Welcome to VIT University " & i)
```

```
        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.”

- Print Length of the given string 2 in the Textbox 3 control.
- Replace all “C” by “M in the given string 1 and display the output in Textbox Control 4.
- Reverse the string 2 and display the output in the Textbox Control 5.
- Print middle of the string2 from “P” to “X” in the Textbox Control 6.
- Join the given string 1 and string 2 and display the output in the Textbox control 7.

Program 10- DESIGN

The screenshot shows a Windows Form titled "Form1" with a menu strip and several text boxes. The menu strip contains the following items:

- Length (Alt+L)
- Replace (Alt+R)
- Reverse (Alt+R)
- Middle (Alt+M)
- Join (Ctrl+Alt+1)

Below the menu strip, there are five text boxes with labels and a "Type Here" button:

- Length of the given string 2
- Replace all "C" by "M" in string 1
- Reverse the string 2
- Middle of the string2
- Join the given string 1 and string 2

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

Form1

String Functions

String 1	egorized into Common Controls, Menus, Toolbars, Components, Printings and Dialogs
String 2	sed common controls are Button, Label, ComboBox, ListBox, PictureBox, TextBox etc
Length of the given string 2	99
Replace all "C" by "M" in string 1	ols, Menus, Toolbars, Momponents, Printings and Dialogs
Reverse the string 2	.ebaL ,nottuB era slortnoc nommoc desu tsom eht fo emoS
Middle of the string2	, PictureBox
Join the given string 1 and string 2	utton, Label, ComboBox, ListBox, PictureBox, TextBox etc