LAB ASSESSMENT – 2
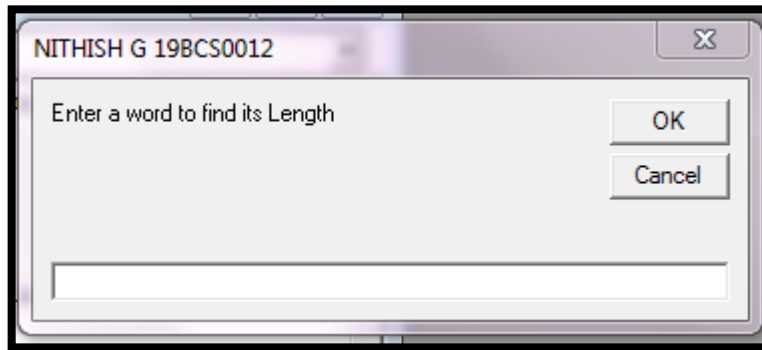
REG NO   : 19BCS0012

NAME   : NITHISH G

COURSE CODE   :   CSC3004

COURSE   :   VISUAL PROGRAMMING

DATE   : 18.03.2021

1. **AIM:**

To determine the length of a given word using select case up to 5 letters. A word is taken as input through a Input box, and the length is shown in your form through message box control.

From Design

Event Procedures:

Private Sub Form_Load()

Dim word As String
Dim length As Integer

word = InputBox("Enter a word to find its Length ", "NITHISH G 19BCS0012 ")
length = Len(word)

Select Case length

Case 1
MsgBox " The word has 1 letter ", vbInform\ation, "Length"
Case 2
MsgBox " The word has 2 letter ", vbInformation, "Length"
Case 3
MsgBox " The word has 3 letter ", vbInformation, "Length"
Case 4
MsgBox " The word has 4 letter ", vbInformation, "Length"
Case 5

```
MsgBox " The word has 5 letter ", vbInformation, "Length"
Case Else
MsgBox " The word has more than 5 letter", vbCritical, "Length"

End Select


End Sub
```
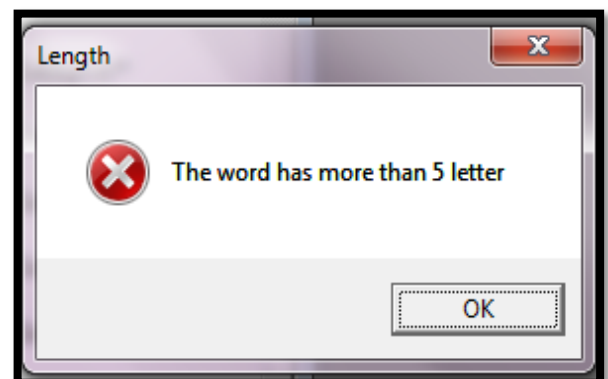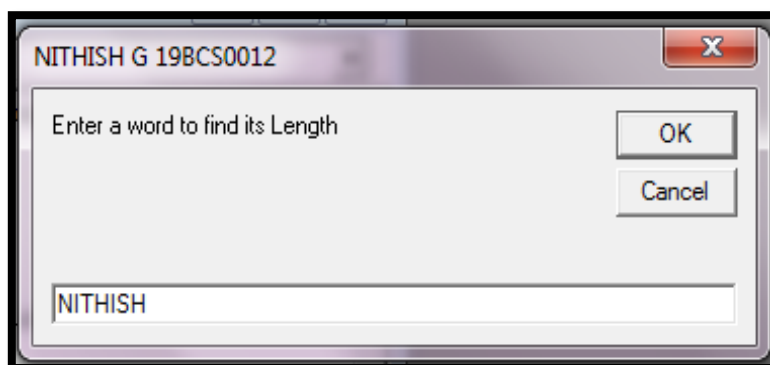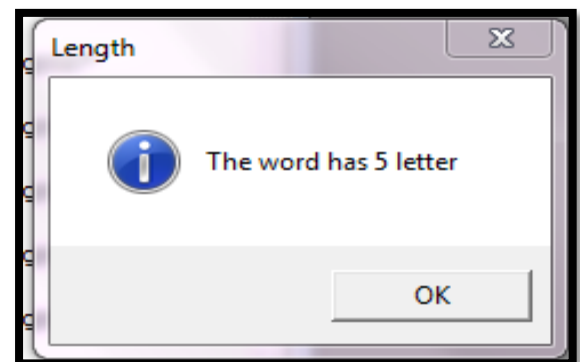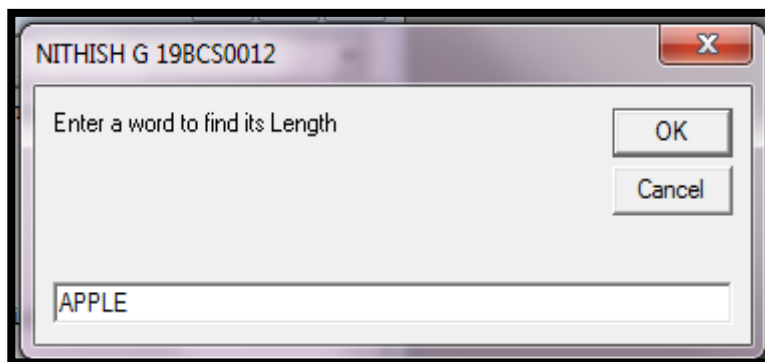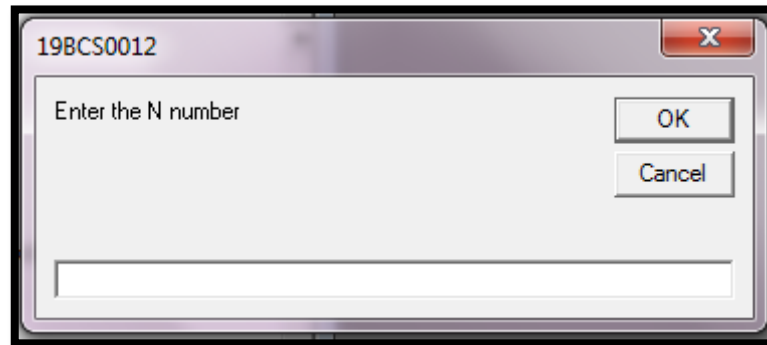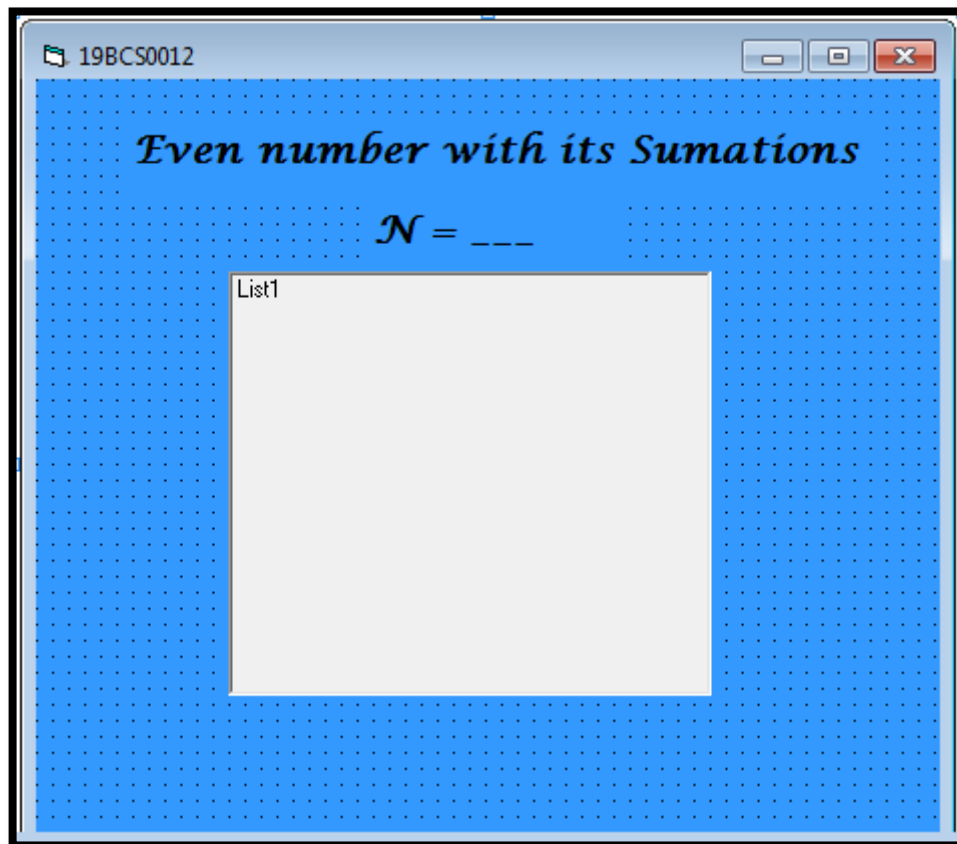
Output form :

2. Aim:

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

Input Form

Event Procedures:

```
Private Sub Form_Load()

Dim n, i, sum As Integer

n = InputBox("Enter the N number", "19BCS0012")
sum = 0
List1.AddItem ("Even numbers" & vbTab & "Sumation of Even numbers")
Label2.Caption = " N = " & n
For i = 2 To n Step 2
sum = sum + i
List1.AddItem ("        " & i & vbTab & vbTab & vbTab & "     " & sum)

Next

End Sub
```
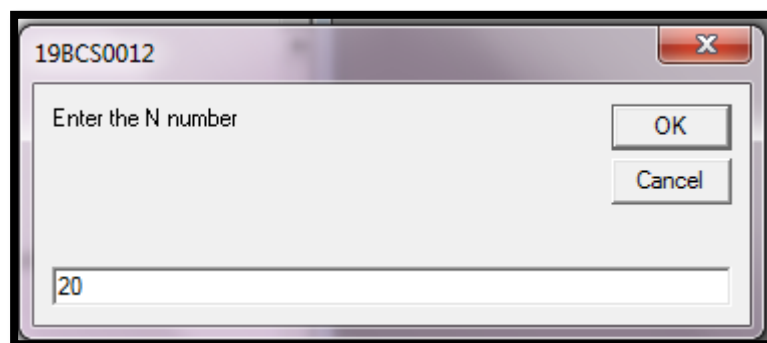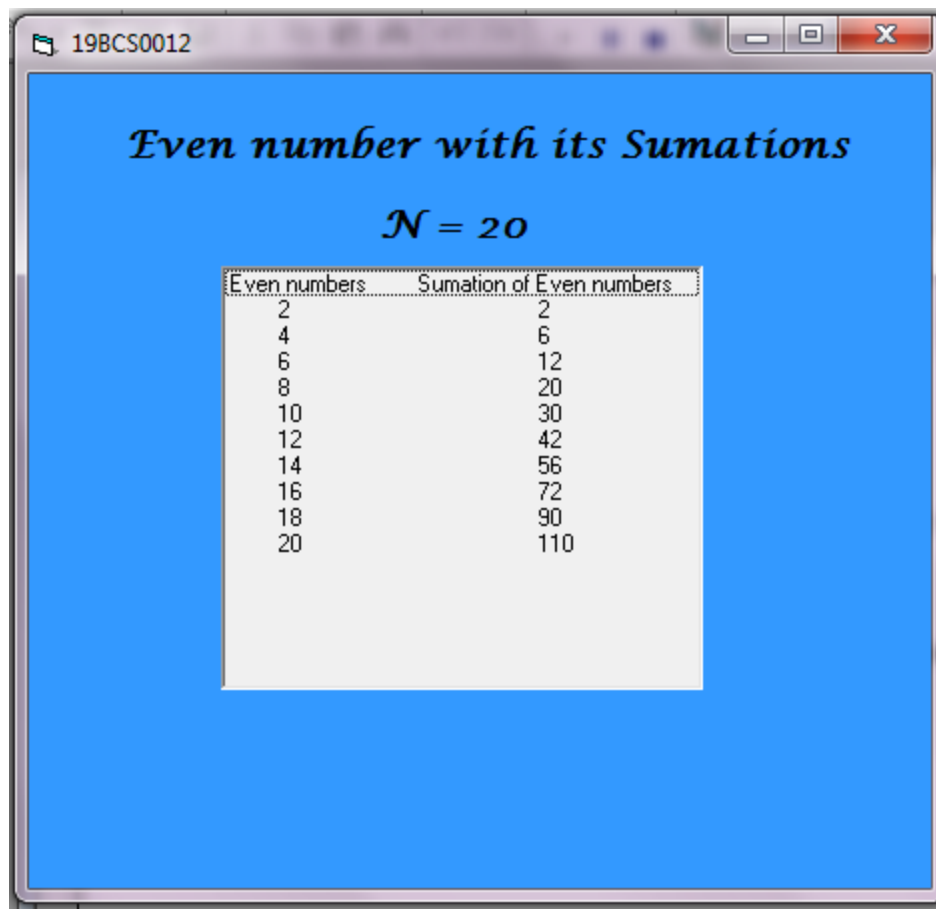
Output Form :

3. **AIM**

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

Input Form :
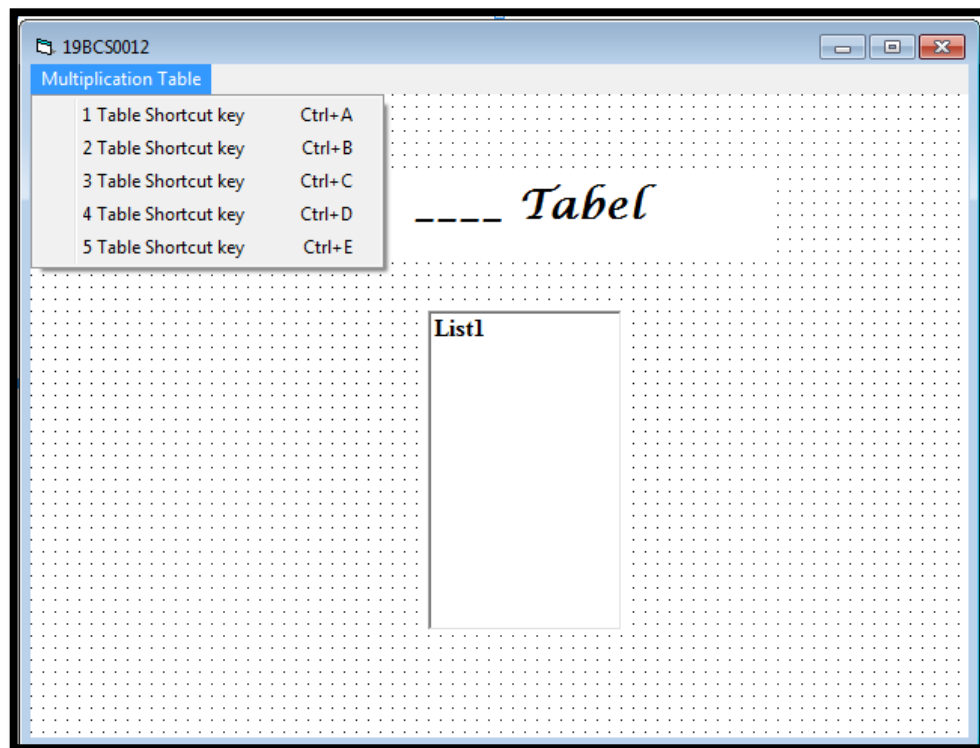
Vb 6.0 doesnt have Alt + ! so I used ctrl + !

Event Procedures:

```
Private Sub t1_Click()
Dim i As Integer
Me.BackColor = RGB(255, 128, 0)
Label1.Caption = " ONE TABEL "
Label1.BackColor = RGB(255, 128, 0)
List1.Clear

    Dim a As Integer
    For i = 1 To 5

      a = 1 * i
      List1.AddItem ("   " & 1 & " * " & i & " = " & a)

    Next

End Sub
```

```vb
Private Sub t2_Click()

List1.Clear
Me.BackColor = RGB(204, 0, 204)
Label1.BackColor = RGB(204, 0, 204)
Label1.Caption = " TWO TABEL "

    Dim a As Integer
    For i = 1 To 5

      a = 2 * i
      List1.AddItem ("   " & 2 & " * " & i & " = " & a)

    Next


End Sub

Private Sub t3_Click()
Me.BackColor = RGB(51, 255, 255)
Label1.BackColor = RGB(51, 255, 255)
Label1.Caption = " THREE TABEL "
 List1.Clear

    Dim a As Integer
    For i = 1 To 5

      a = 3 * i
      List1.AddItem ("   " & 3 & " * " & i & " = " & a)


    Next

End Sub

Private Sub t4_Click()

Me.BackColor = RGB(128, 255, 0)
Label1.BackColor = RGB(128, 255, 0)

Label1.Caption = " FOUR TABEL "
 List1.Clear
```

```
    Dim a As Integer
    For i = 1 To 5

       a = 4 * i
       List1.AddItem ("   " & 4 & " * " & i & " = " & a)

    Next
End Sub

Private Sub t5_Click()
Me.BackColor = RGB(51, 153, 255)
Label1.BackColor = RGB(51, 153, 255)
Label1.Caption = " FIVE TABEL "
 List1.Clear

    Dim a As Integer
    For i = 1 To 5

       a = 5 * i
       List1.AddItem ("   " & 5 & " * " & i & " = " & a)

    Next
End Sub
```
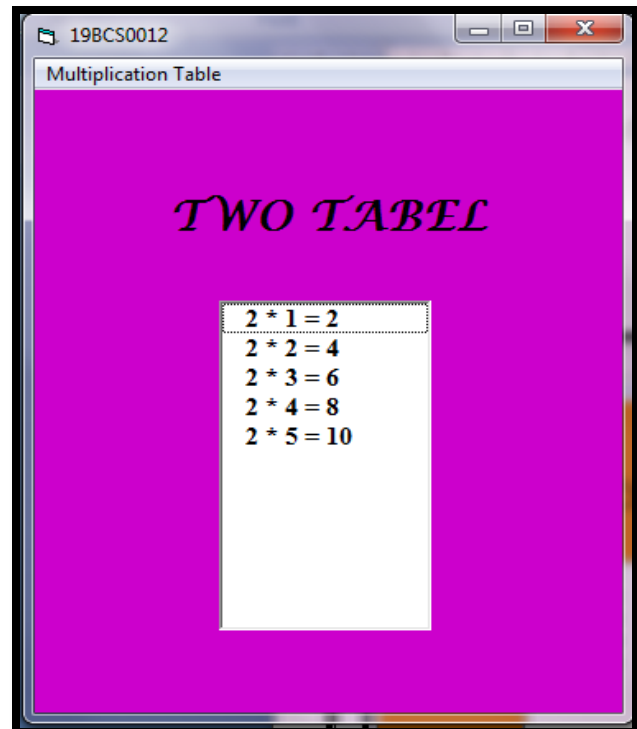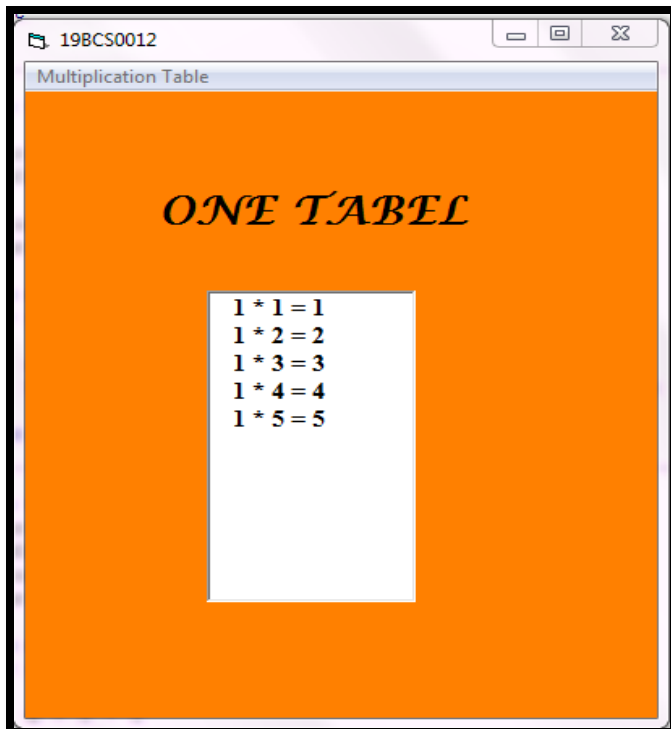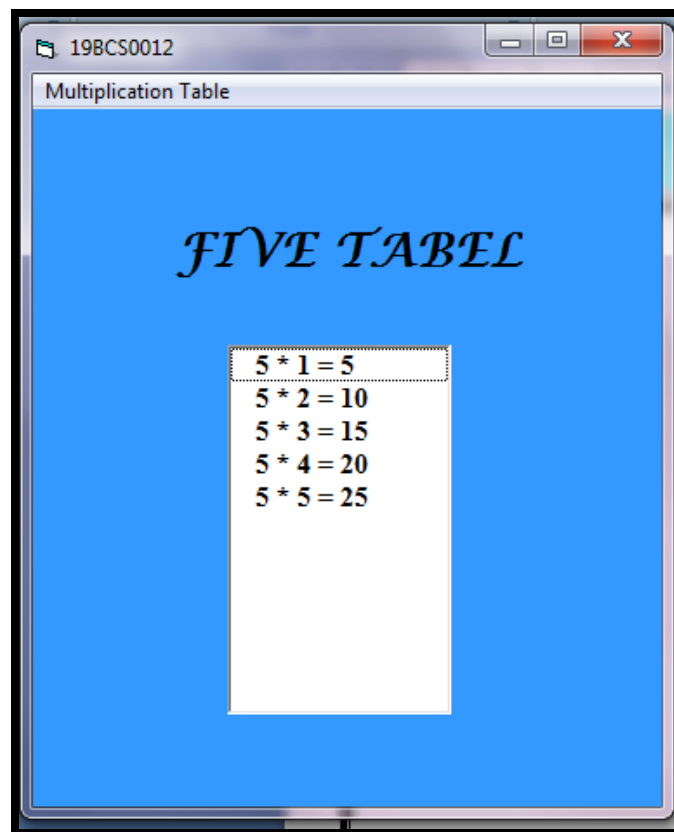
Output Form:

19BCS0012

Multiplication Table

THREE TABEL

```
3 * 1 = 3
3 * 2 = 6
3 * 3 = 9
3 * 4 = 12
3 * 5 = 15
```

19BCS0012

Multiplication Table

FOUR TABEL

```
4 * 1 = 4
4 * 2 = 8
4 * 3 = 12
4 * 4 = 16
4 * 5 = 20
```

19BCS0012

Multiplication Table

FIVE TABEL

```
5 * 1 = 5
5 * 2 = 10
5 * 3 = 15
5 * 4 = 20
5 * 5 = 25
```
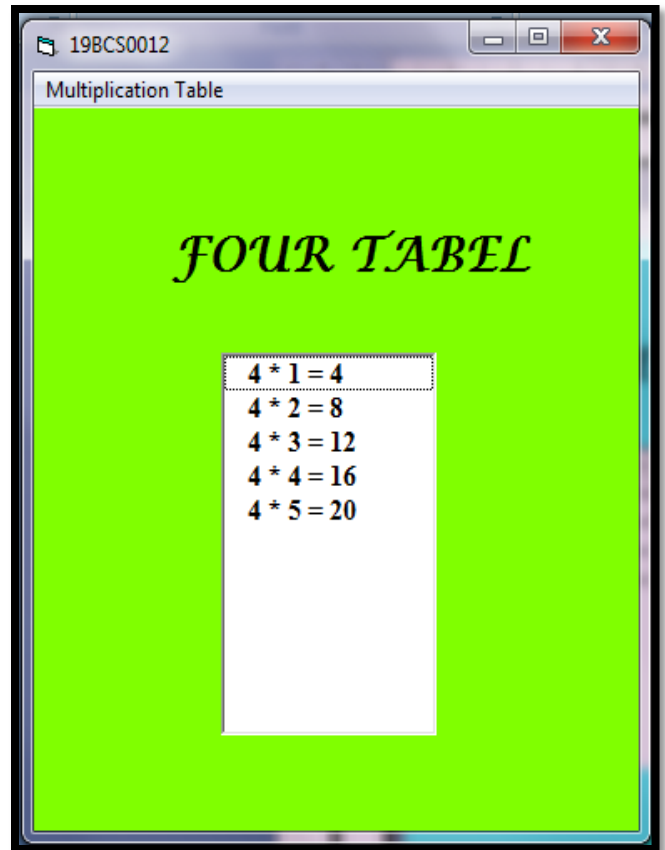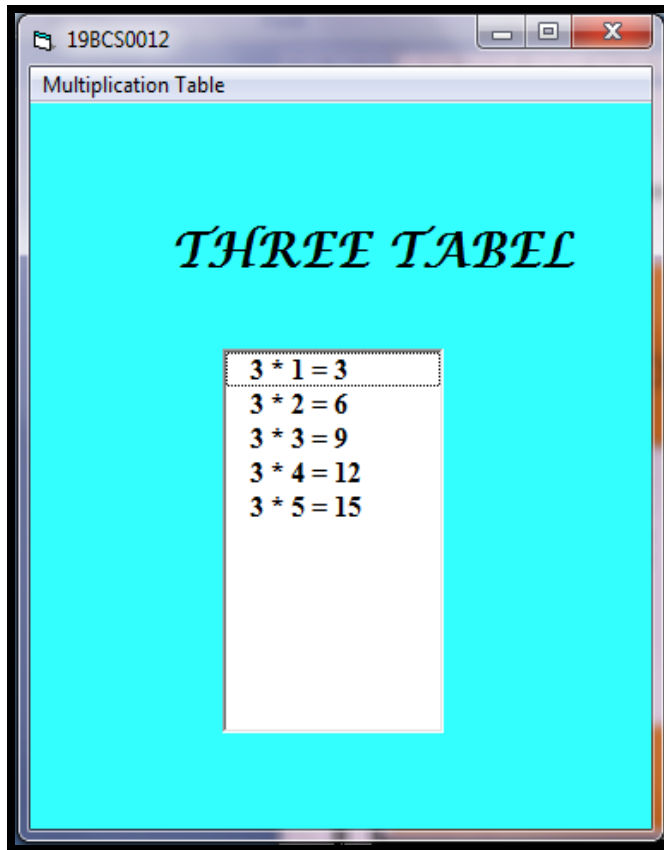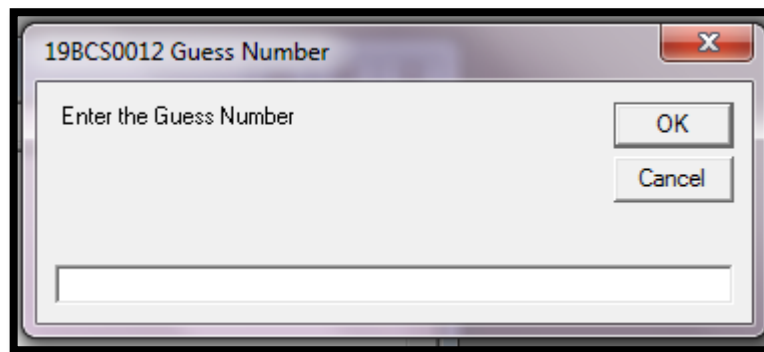
4.
Aim:

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. Note: Guess number=9 Selected range from 1 to 30

Input Form:

Event Procedure

Private Sub Form_Load()

Dim range, guess, correct, number As Integer

guess = 9

correct = 0

range = 30

Do While range > 0 And correct = 0

number = Val(InputBox(" Enter the Guess Number ", " 19BCS0012 Guess Number "))

If number = guess Then

MsgBox " you entered the correct guess number : 9 " & vbLf & " No. of Attempts : " & 30 - (range - 1), vbInformation, "19BCS0012 Guess Number "
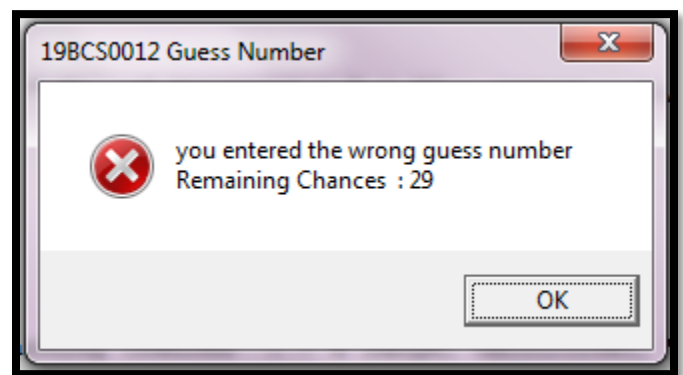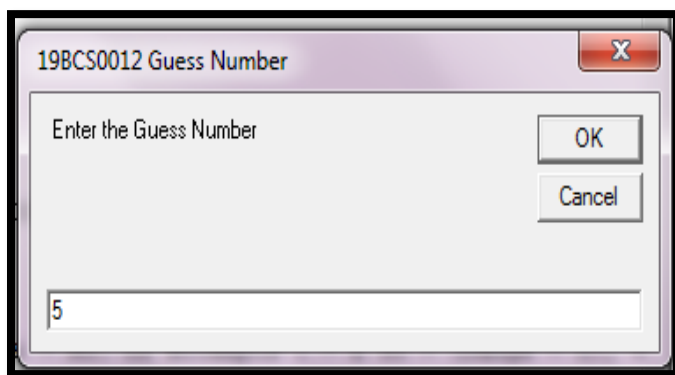
correct = 1

Exit Do

Else
range = range - 1
MsgBox " you entered the wrong guess number " & vbLf & " Remaining Chances : " & range, vbCritical, "19BCS0012 Guess Number "
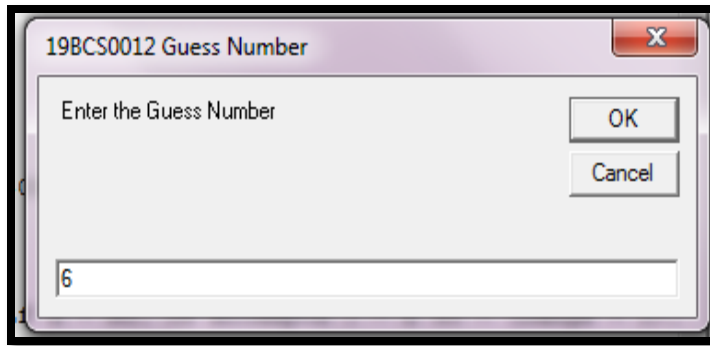
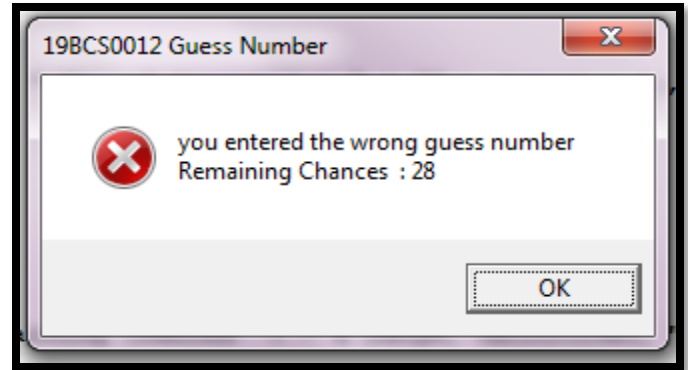End If
Loop

End Sub

Output Form

5. AIM

Create Fibonacci series in List box control.

Input Form
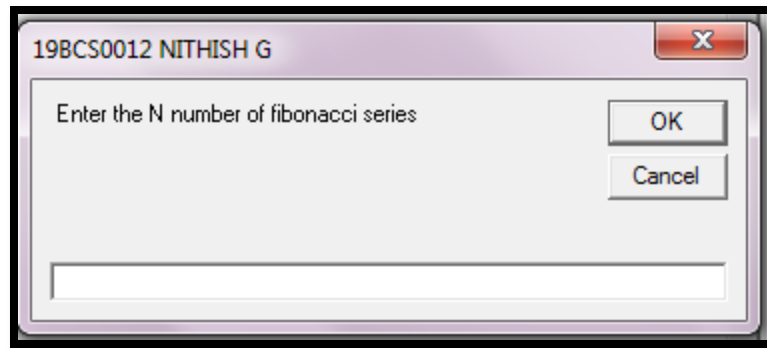
Event Procedure:

Private Sub Form_Load()

Dim x, g, n, i, sum As Integer
n = Val(InputBox(" Enter the N number of fibonacci series ", "19BCS0012 NITHISH G "))
x = 0
y = 1
List1.AddItem " Fibonacci Series of N = " & n
List1.AddItem (vbTab & x)
List1.AddItem (vbTab & y)
For i = 3 To n
sum = x + y
List1.AddItem (vbTab & sum)
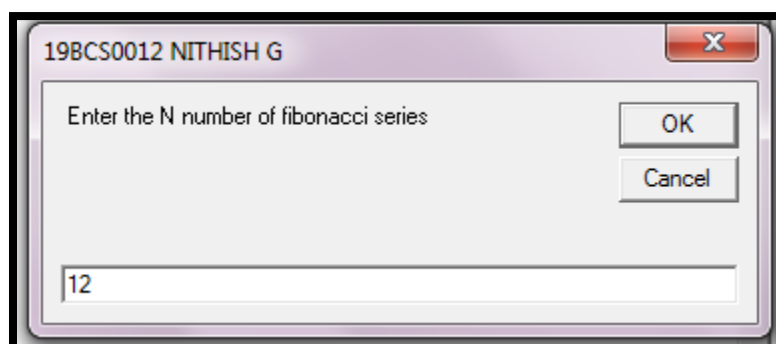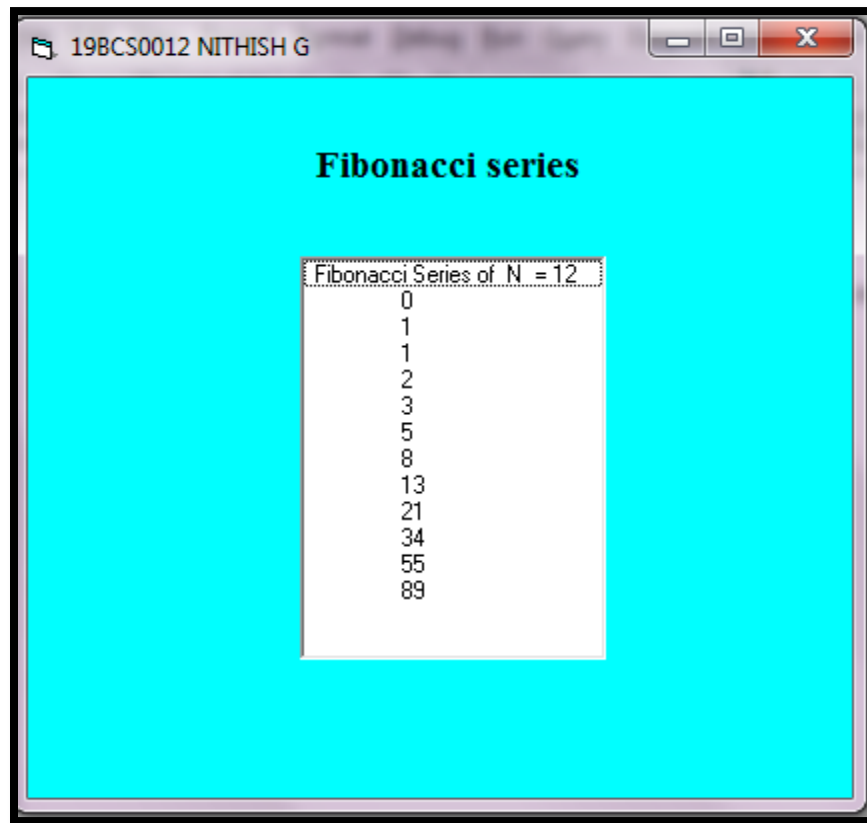x = y
y = sum

Next i

End Sub

Output Form:

6 . AIM

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:
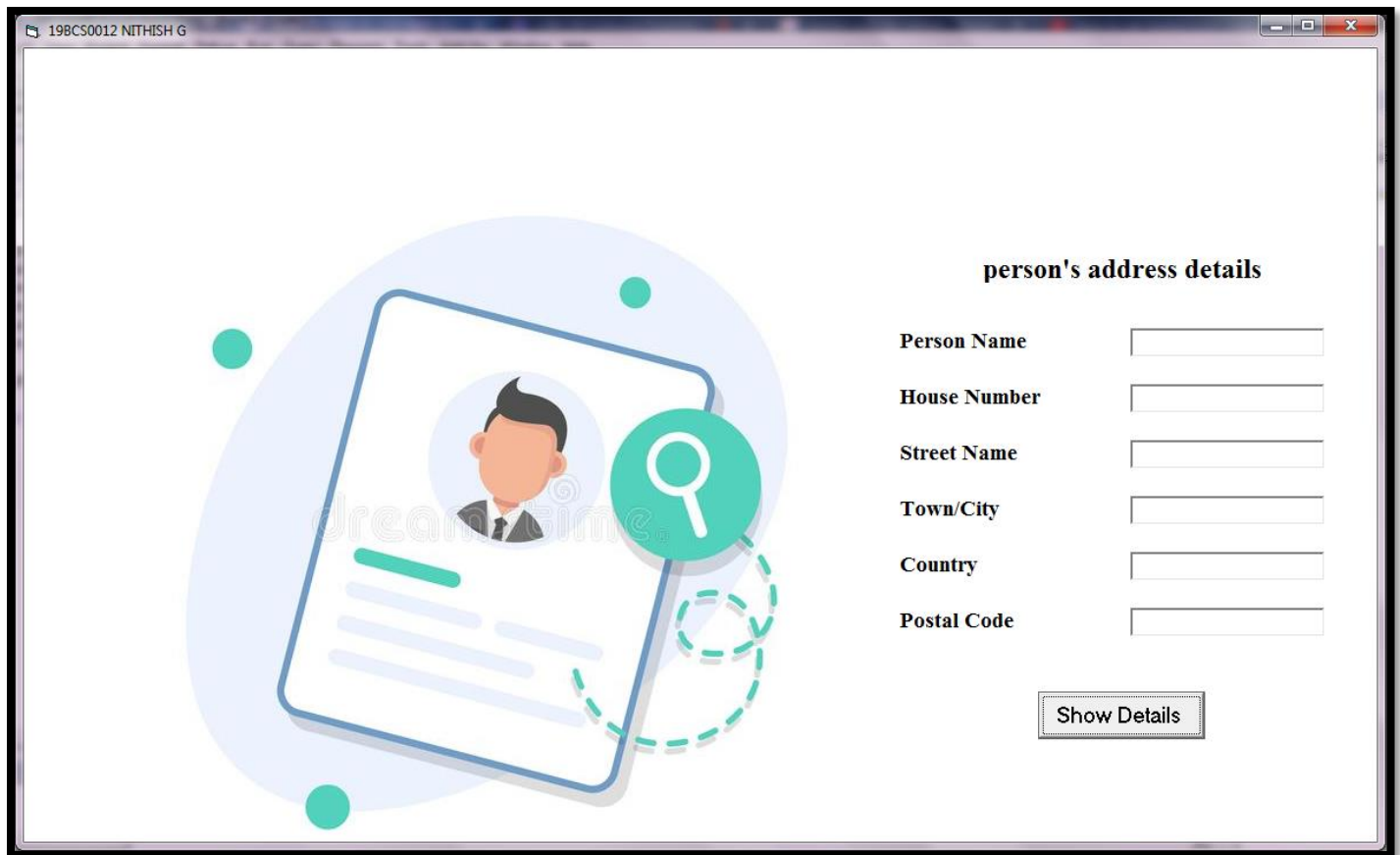
Street Name:

Town/City:

Country:

Postal Code:

INPUT FORM

Event Procedures :

```
Private Sub Command1_Click()

Dim Person_Name, House_Number, Street_Name As Variant

Dim Town_or_City, Country As Variant

Dim Postal_Code As Integer

Person_Name = Text1.Text

House_Number = Text2.Text

Street_Name = Text3.Text

Town_or_City = Text4.Text
```

Country = Text5.Text

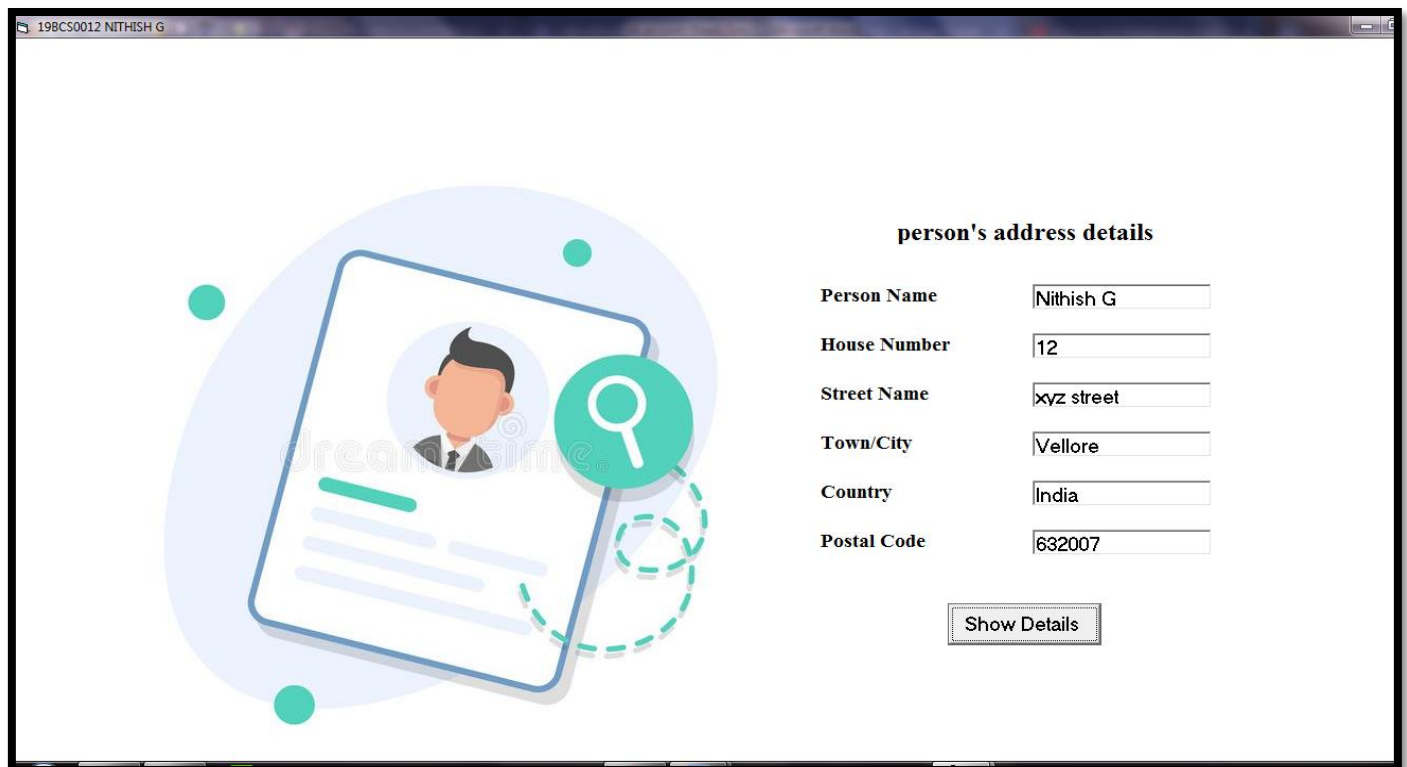Postal_Code = Text6.Text

MsgBox "Person Address Details " & vbLf & vbLf & "Person Name   : " & Person_Name & vbLf & "House_Number   : " & House_Number & vbLf & "Street Name   : " & Street_Name & vbLf & "Town_or_City   : " & Town_or_City & vbLf & "Country   : " & Country & vbLf & "Postal_Code   :   " & Postal_Code, vbInformation
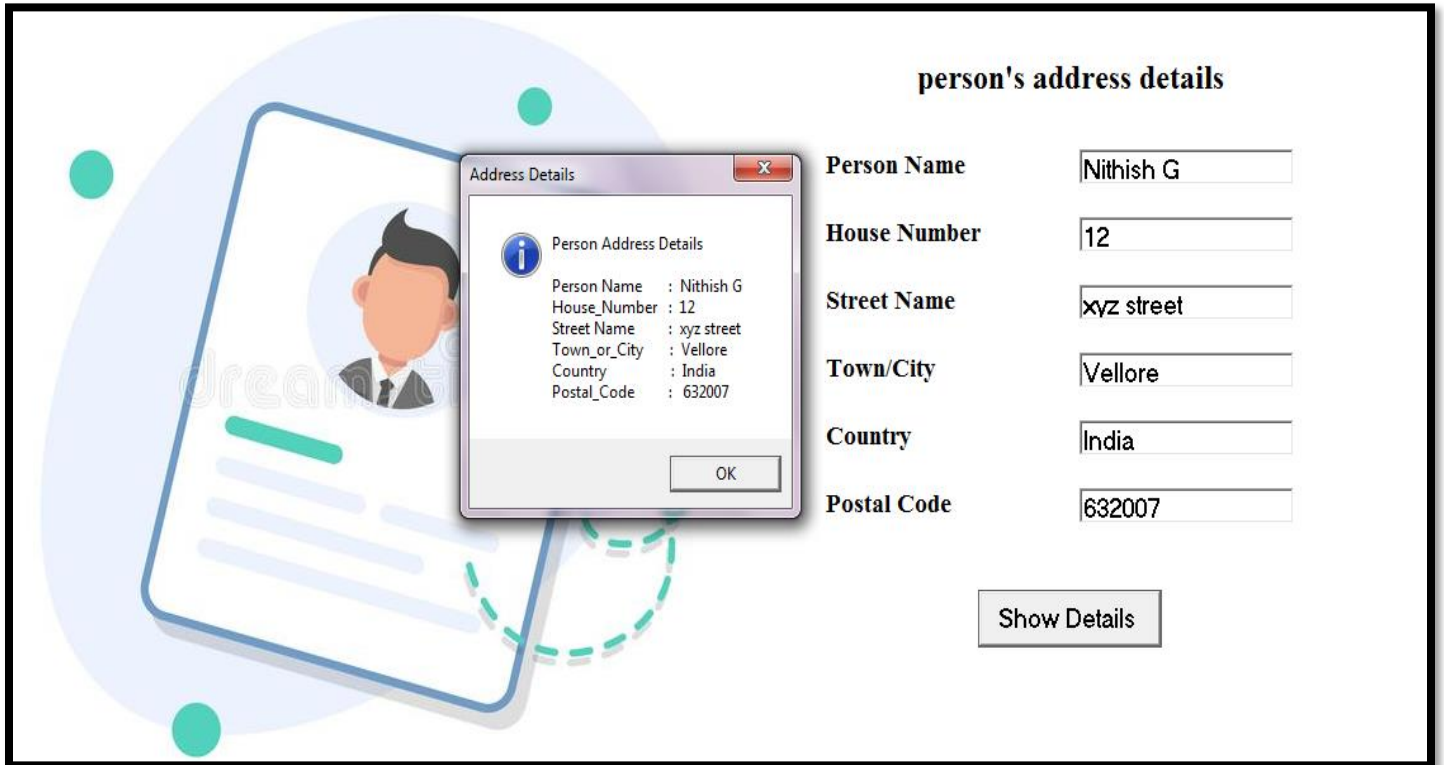

End Sub

Output Form:
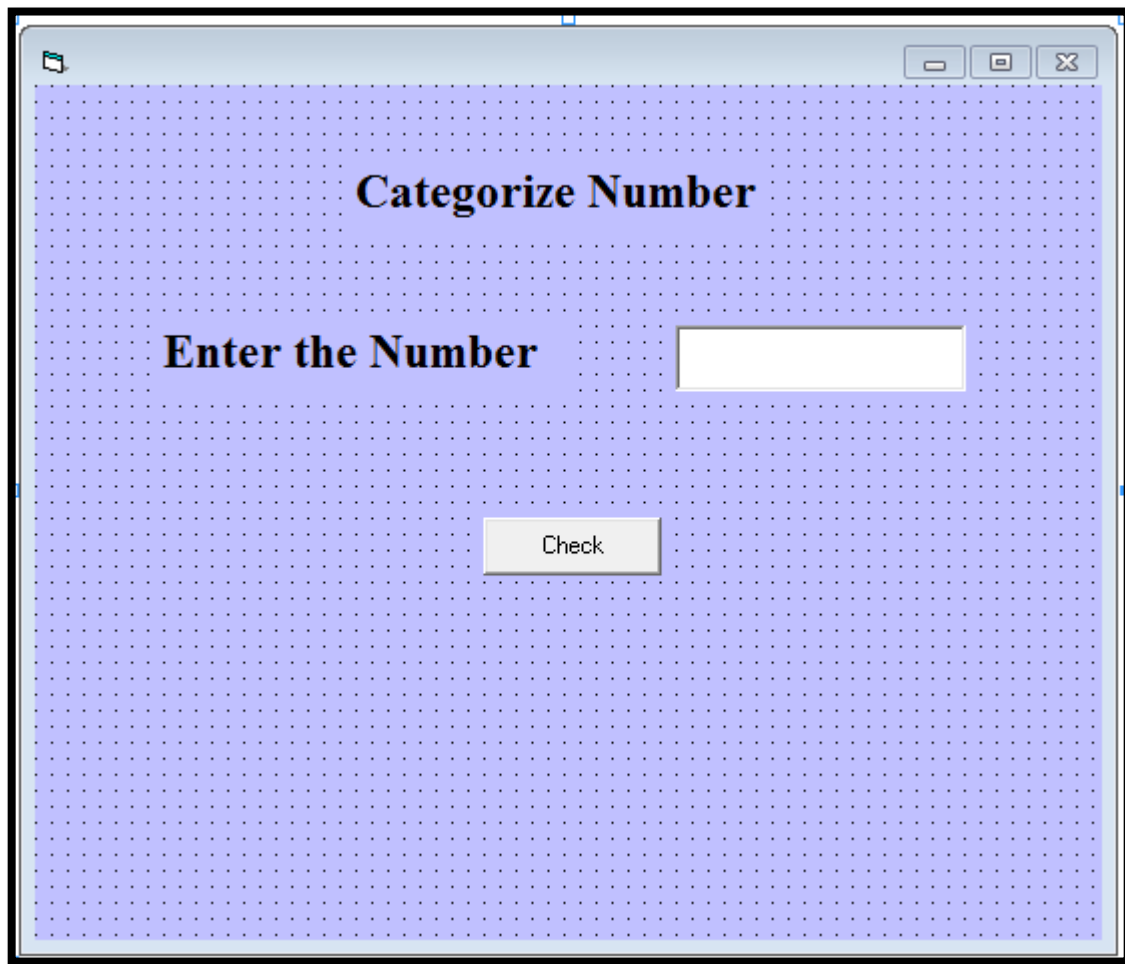
7.

Aim :

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

Input Form

Event Procedure

Private Sub Command1_Click()
Dim n As Integer
n = 0
n = Val(Text1.Text)

If n > 0 Then

MsgBox " The given number is : " & n & vbLf & " It is positive ",
vbInformation, " 19BCS0012 "

ElseIf n < 0 Then

MsgBox " The given number is : " & n & vbLf & " It is negative ", vbInformation, " 19BCS0012 "

Else

MsgBox " The given number is : " & n & vbLf & " It is positive or not negative ", vbCritical, " 19BCS0012 "

End If

End Sub

Output form

Categorize Number

Enter the Number `0`

Check

19BCS0012

❌ The given number is : 0
It is positive or not negative

OK

Categorize Number

Enter the Number `-4`

Check

19BCS0012

ℹ The given number is : -4
It is negative

OK
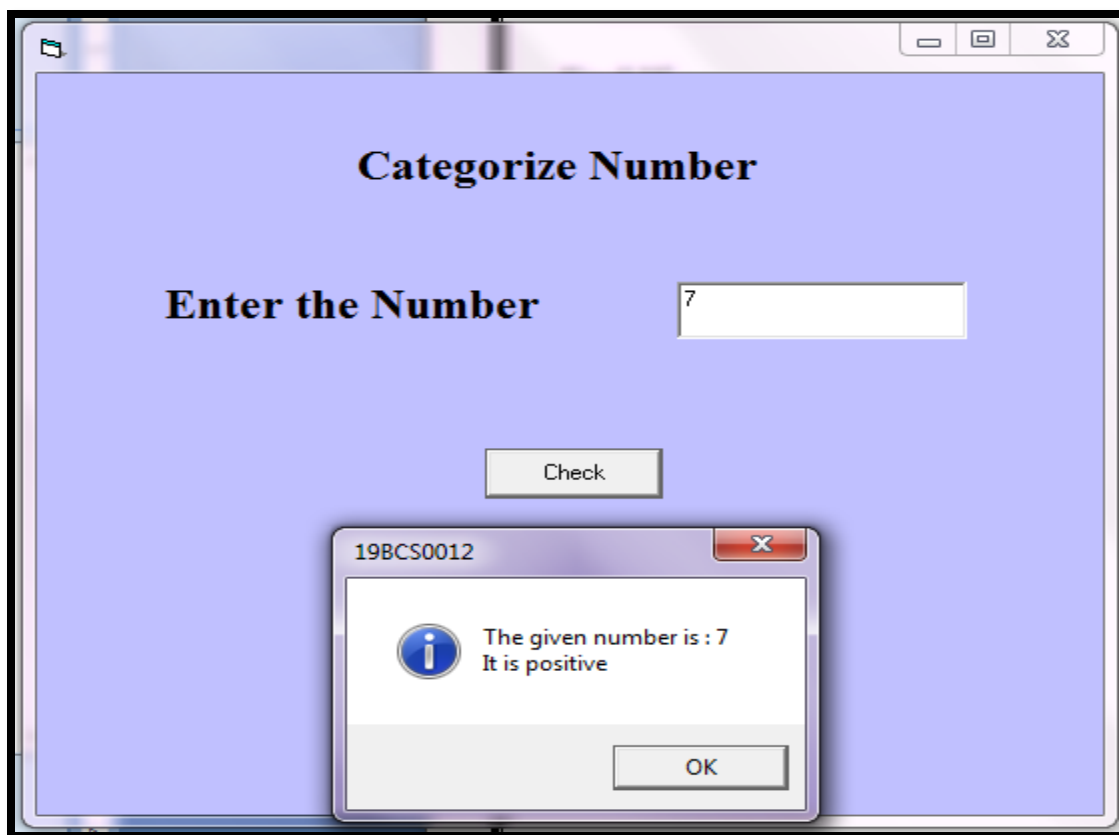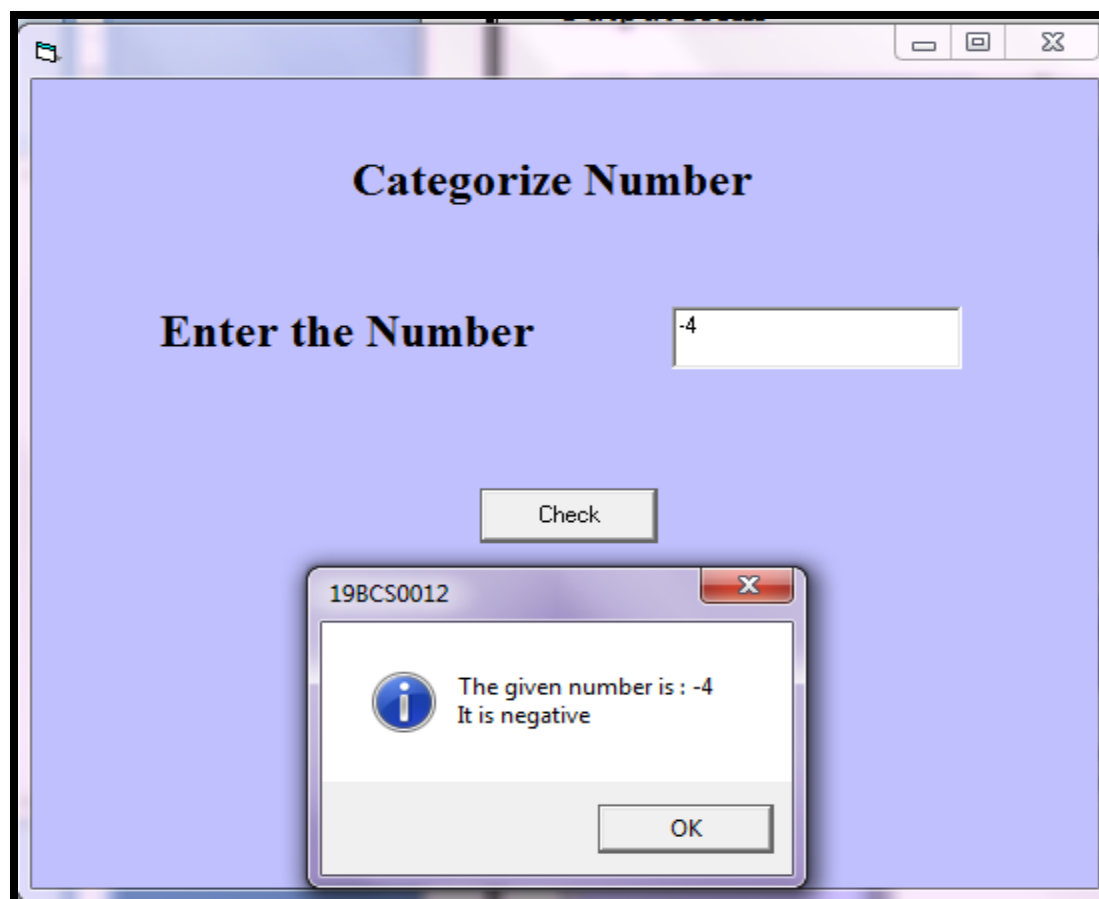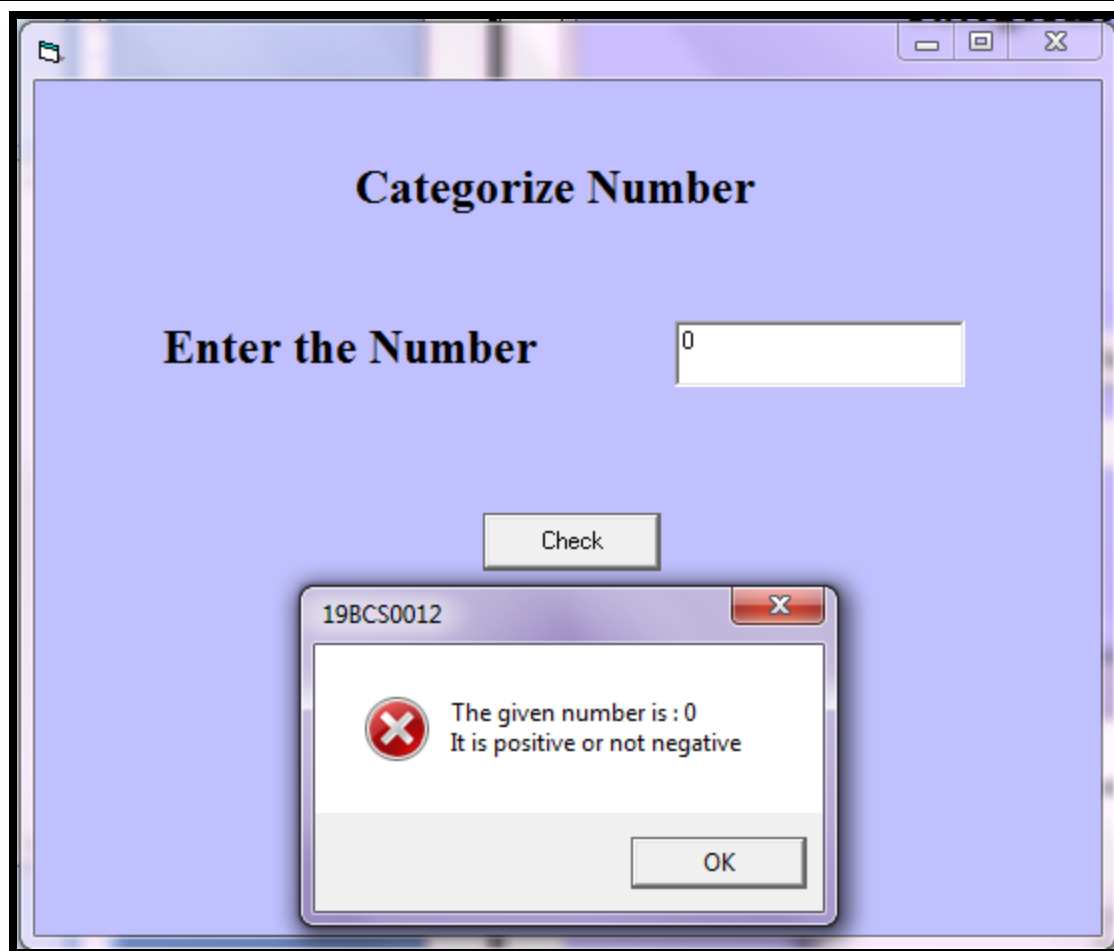
8. AIM:

To print equivalent character of the given ASCII value from 65 to 70 in the list box control using for loop.

Input Form:
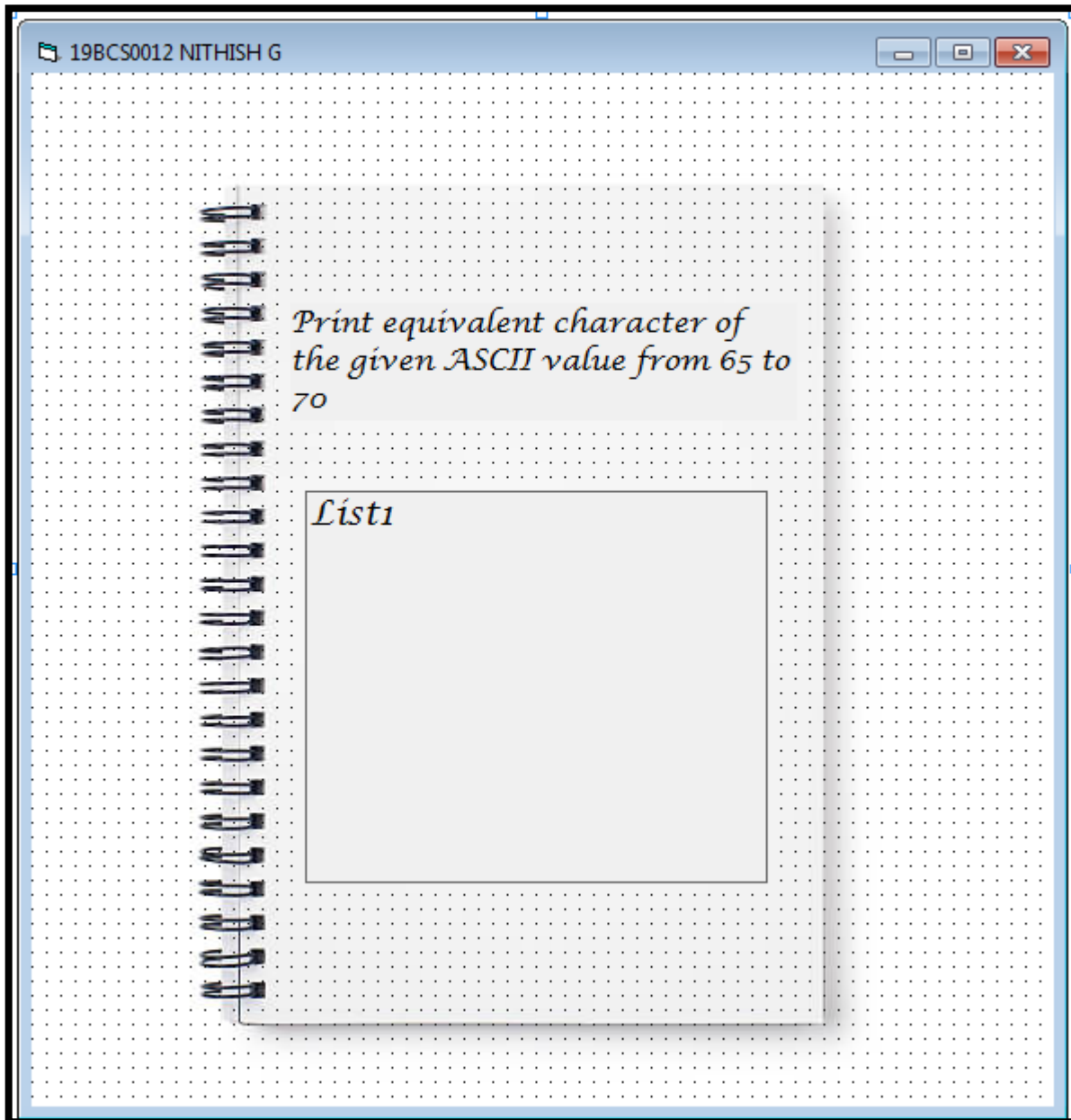
Event Procedure:

Private Sub Form_Load()

Dim ASCII As Integer

List1.AddItem ("ASCII Code   Letter ")
List1.AddItem ("")

For ASCII = 65 To 70

List1.AddItem ("   " & ASCII & vbTab & "   " & Chr(ASCII))

Next

End Sub

Output
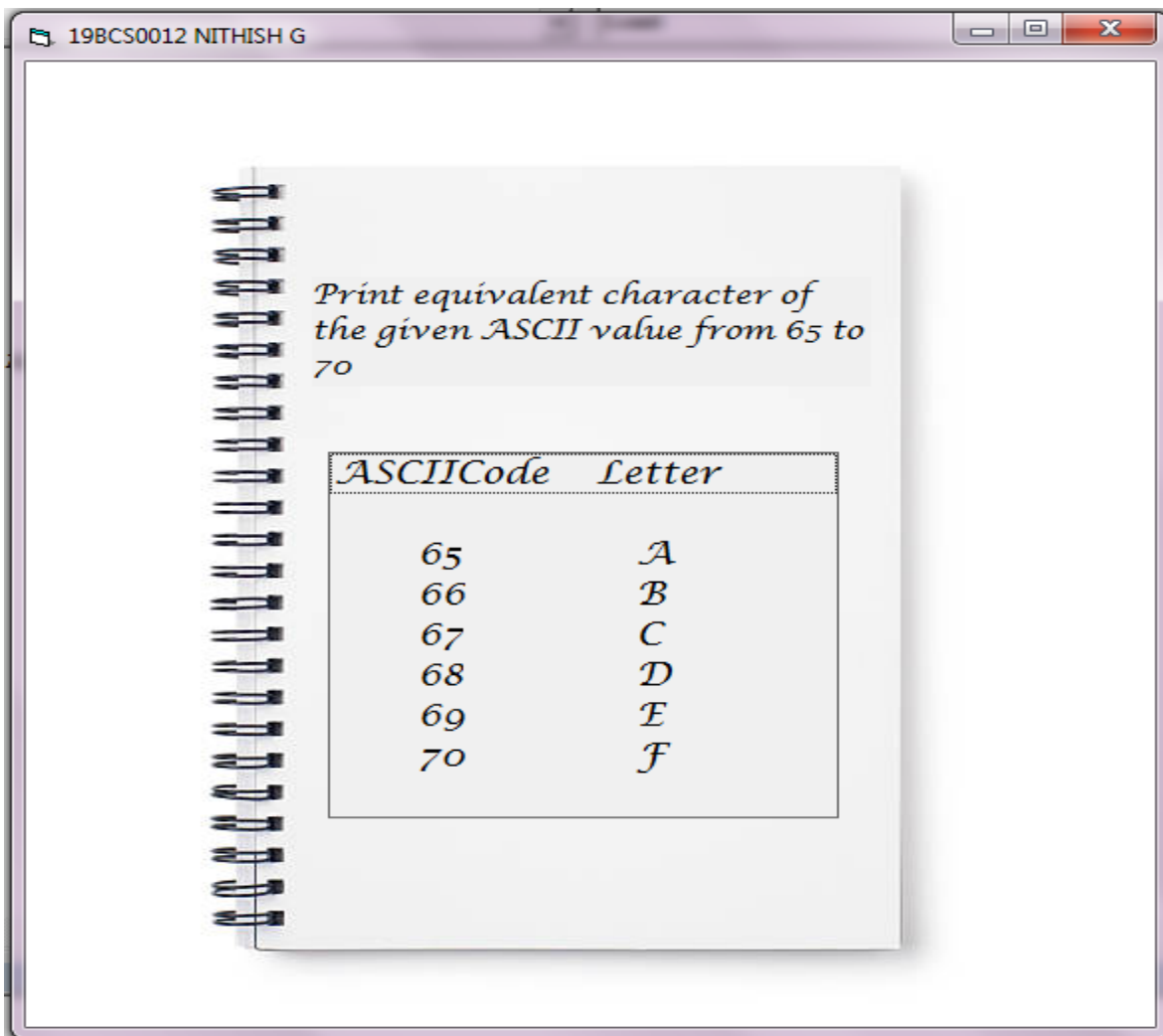
9. To print (Welcome to VIT University) 20 times with its numbering in the list box control using do while loop.

Input Form:

Event Procedures:

Private Sub Command1_Click()

Dim I As Integer
I = 0

Do While I < 20

I = I + 1

List1.AddItem ("Welcome to VIT University : " & vbTab & I)

Loop

End Sub

<u>Output Form</u>
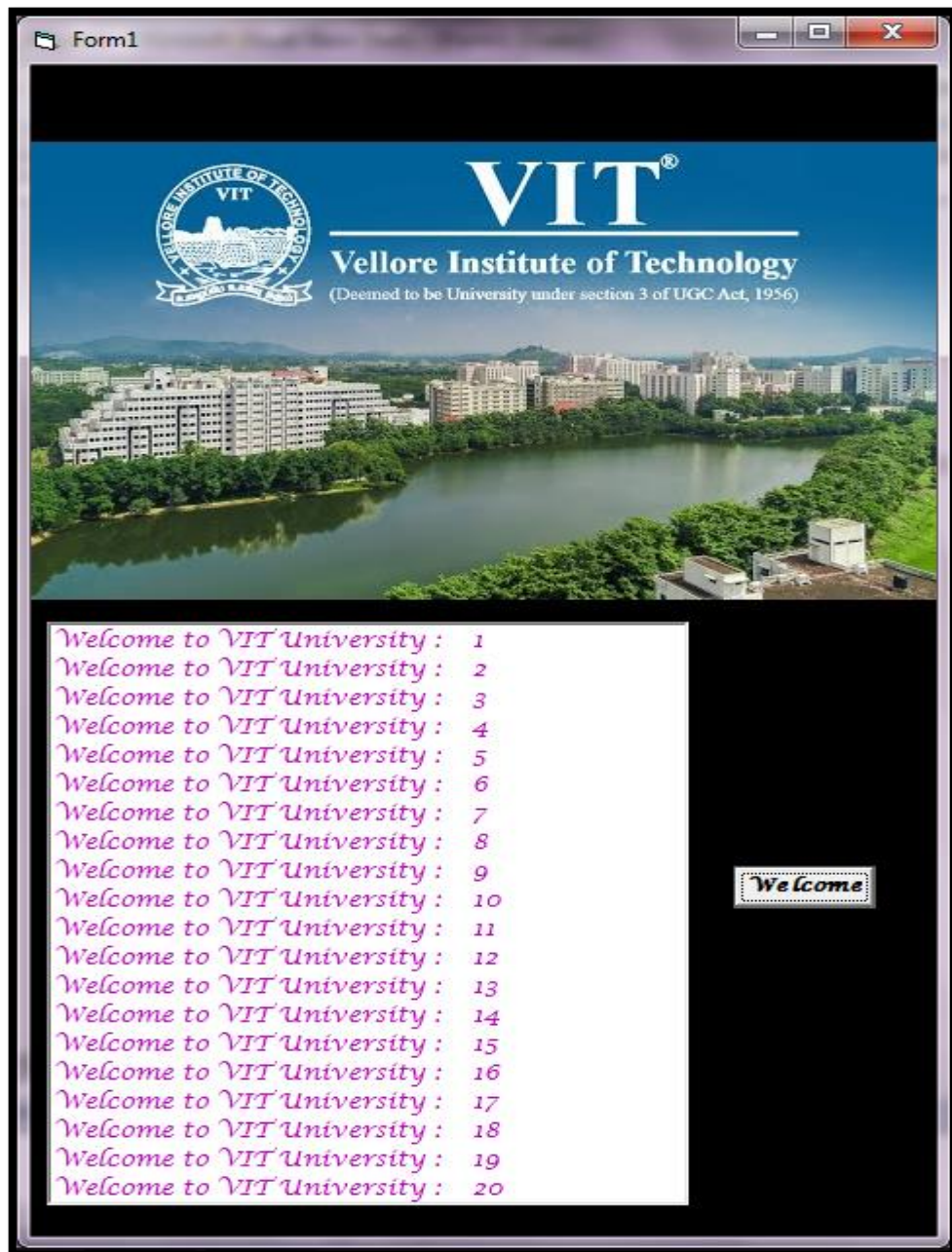
Aim:

10. Apply the following string functions for the given strings which is entered in the Text Box1 and Text Box 2 using menu strip control. **[14 Marks]**

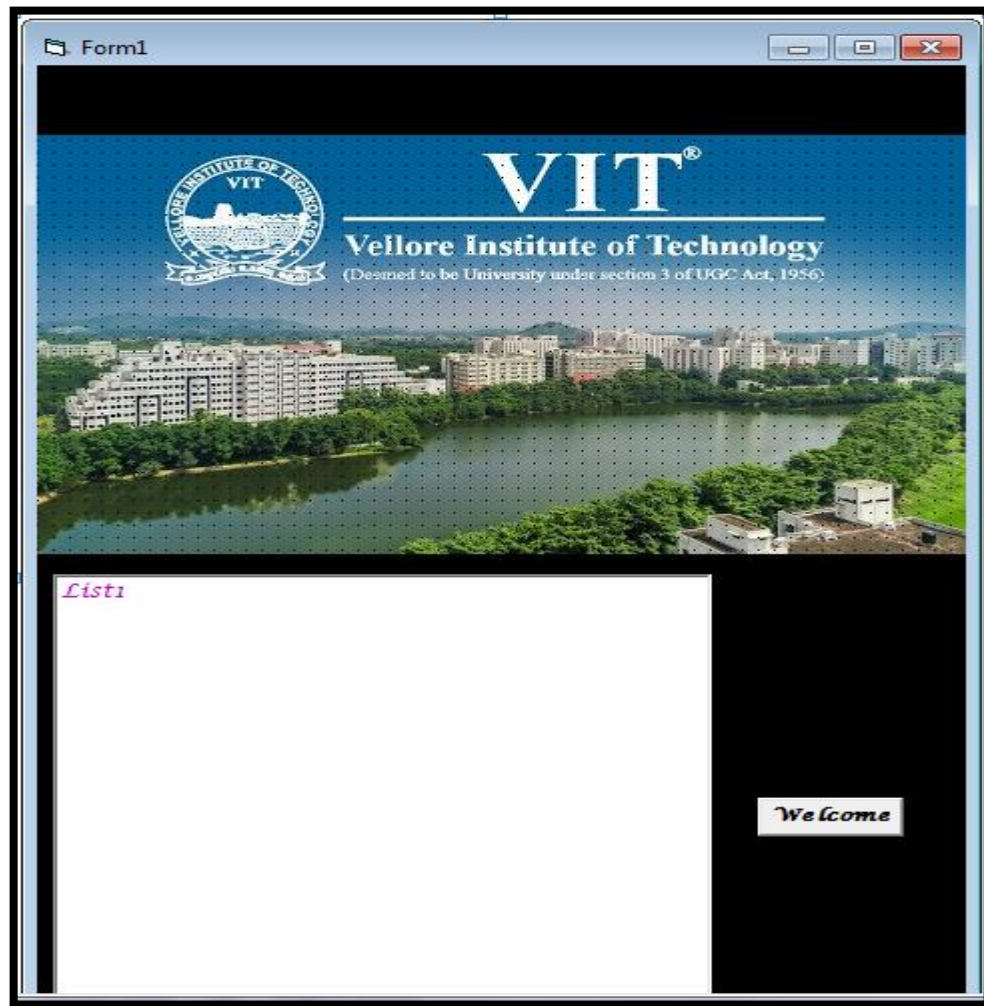**String1 (Textbox 1) = The Controls are Categorized into Common Controls, Menus, Toolbars, Components, Printings and Dialogs.**

String2(Textbox 2) = " Some of the most used common controls are Button, LabeL, ComboBox, ListBox, PictureBoX, TextBox etc."

Input Form:

Event Procedures;

```vb
Private Sub con_Click()
Text7.Text = Text2.Text + Text1.Text
End Sub

Private Sub Form_Load()
Text1.Text = "The Controls are Categorized into Common Controls, Menus, Toolbars,
Components, Printings and Dialogs"
Text2.Text = "Some of the most used common controls are Button, LabeL, ComboBox,
ListBox, PictureBoX, TextBox etc."
End Sub

Private Sub len_Click()
Text3.Text = Len(Text2.Text)
End Sub

Private Sub mi_Click()

Text6.Text = mid(Text2.Text, 76, 11)
End Sub

Private Sub rep_Click()
Text4.Text = Replace(Text1.Text, "C", "M")
End Sub

Private Sub rev_Click()
Text5.Text = StrReverse(Text2.Text)
End Sub
```

Output Form:

String Functions
Length	Ctrl+L
Replace	Ctrl+R
Reverse	Ctrl+E
Middle	Ctrl+M
Join	Ctrl+F1

String 1

The Controls are Categorized into Common Controls, Menus, Toolbars, Components, Printings and Dialogs

String 2

Some of the most used common controls are Button, LabeL, ComboBox, ListBox, PictureBoX, TextBox etc.

Length of the given string 2

100

Replace all "C" by "M in string 1

The Montrols are Mategorized into Mommon Montrols, Menus, Toolbars, Momponents, Printings and Dialogs

Reverse the string 2

.cte xoBtxeT ,XoBerutciP ,xoBtsiL ,xoBobmoC ,LebaL ,nottuB era slortnoc nommoc desu tsom eht fo emoS

middle of string2 from "P" to "X"

PictureBoX

Join the string 1 and string 2

Some of the most used common controls are Button, LabeL, ComboBox, ListBox, PictureBoX, TextBox etc.The Controls are Categorized into Common Controls, Menus, Toolbars, Components, Printings and Dialogs