COMPUTER PROGRAMMING

REPETITION (LOOPS) – 1 (Exercise)

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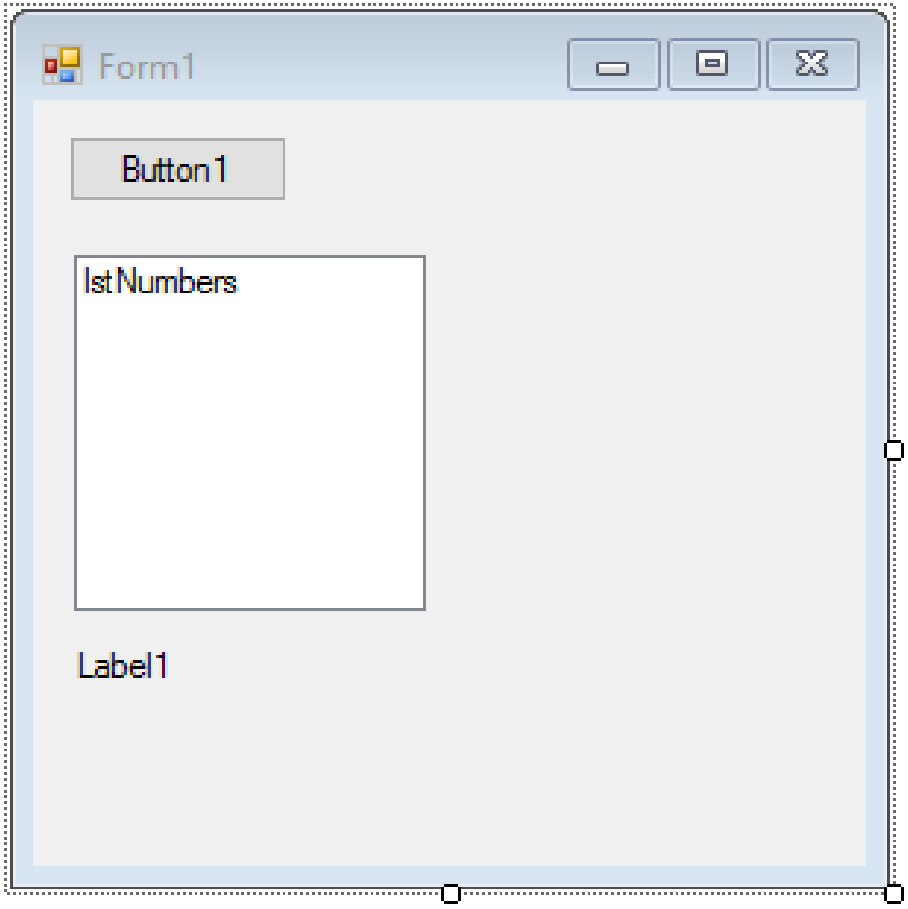
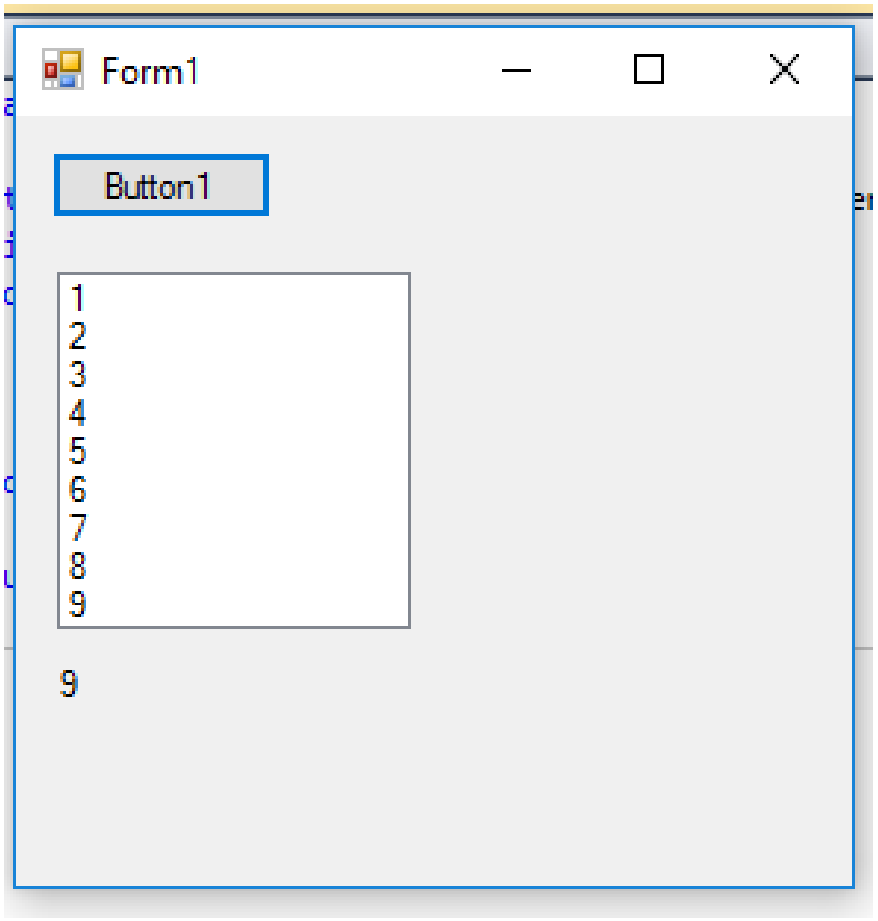
Exercise 15 – Do While… Loop (Form and Output)



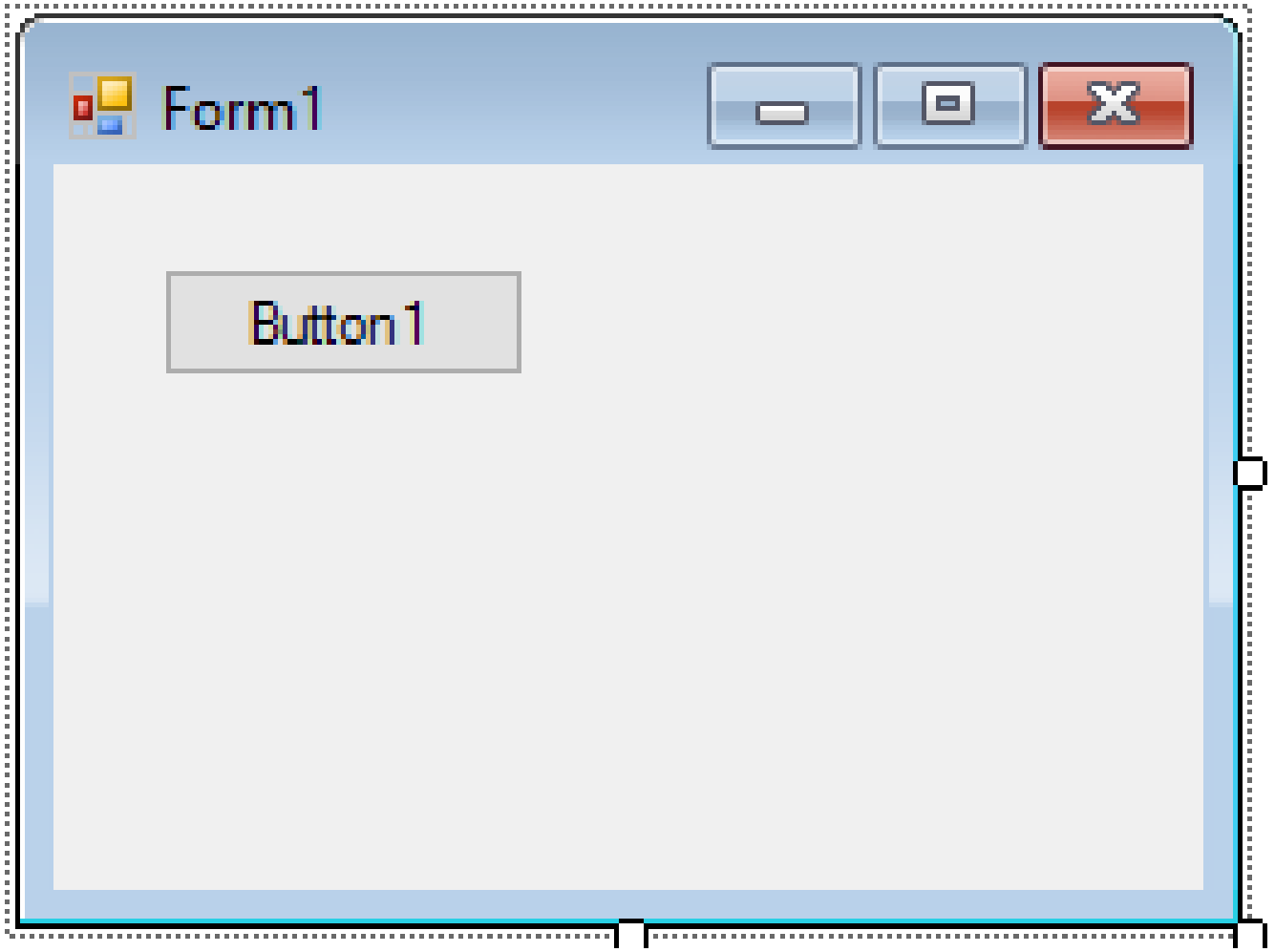


Exercise 15 – Do While… Loop (Code)

```
Private Sub Button1_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs)
Handles BtnDisplay.Click
'Tabulate the numbers from 1 to 9
  Dim num As Integer = 1
      Do While num <= 9
        lblResult.Text = num
        lstNumbers.Items.Add(num)
        num += 1 'Add 1 to the value of num
        Loop
    End Sub
```

```
For counter As Integer = 1 To 9
```

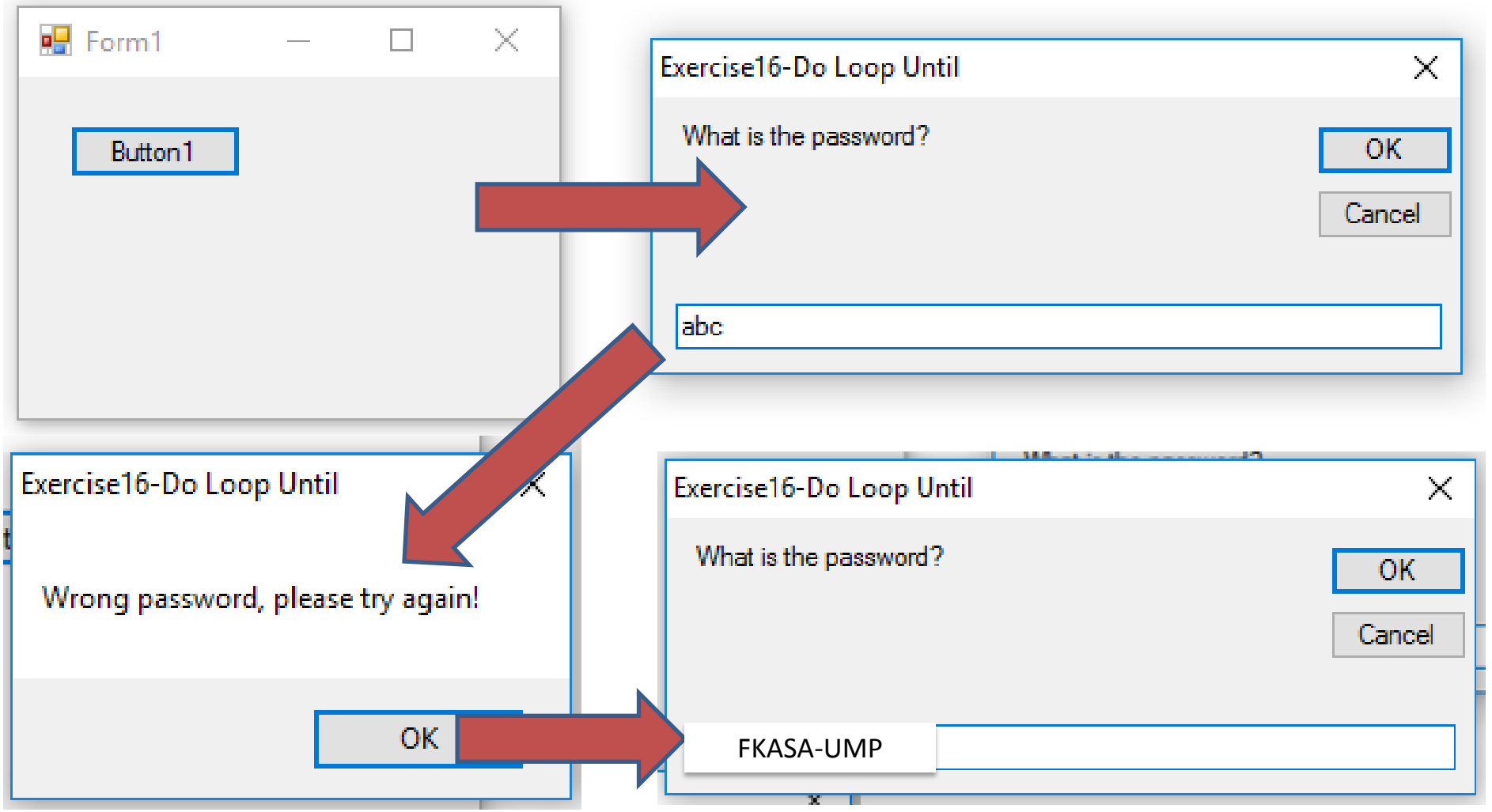
Exercise 16 – Do… Loop Until (Form)



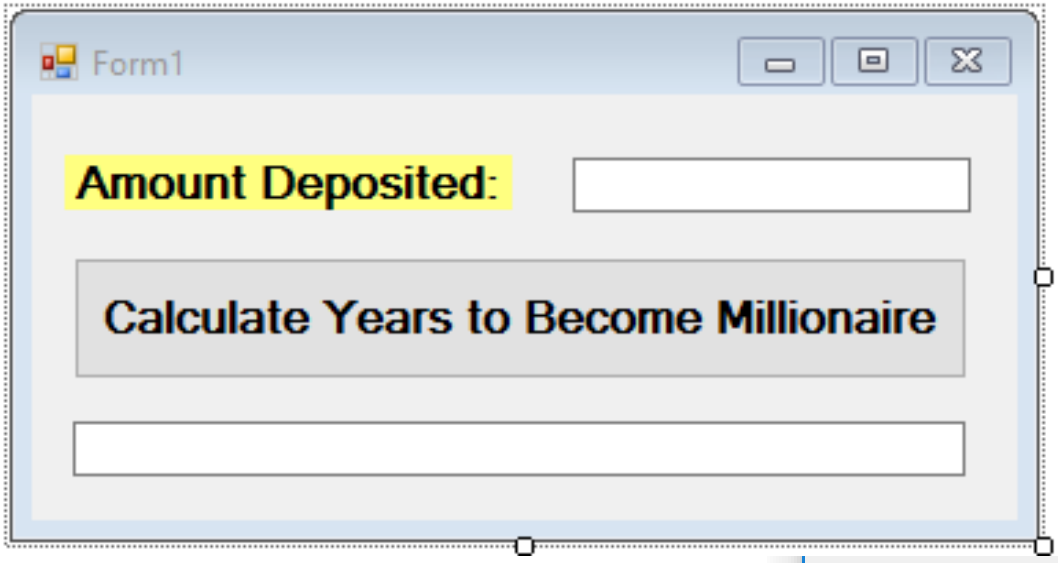
Exercise 16 – Do… Loop Until (Code)

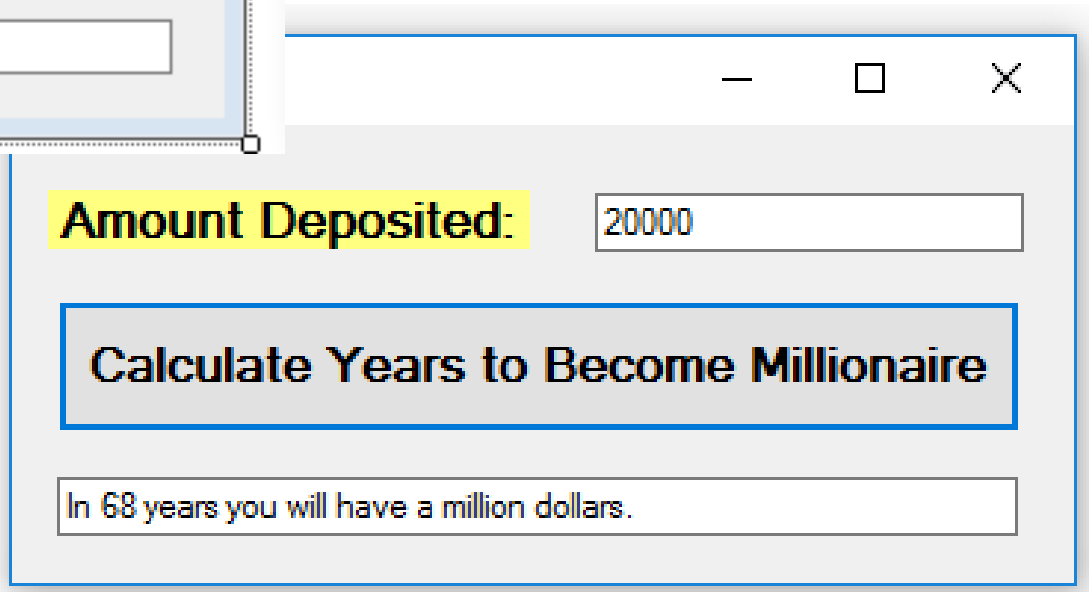
```
Private Sub Button1_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
Button1.Click
    Dim passWord As String = ""
    Do
        passWord = InputBox("What is the password?")
        MsgBox("Wrong password, please try again!")
    Loop Until passWord = “FKASA-UMP"
 End Sub
```

Exercise 16 – Do… Loop Until (Output)



Exercise 17 – Do Loop (Financial Calculation) Form and Output





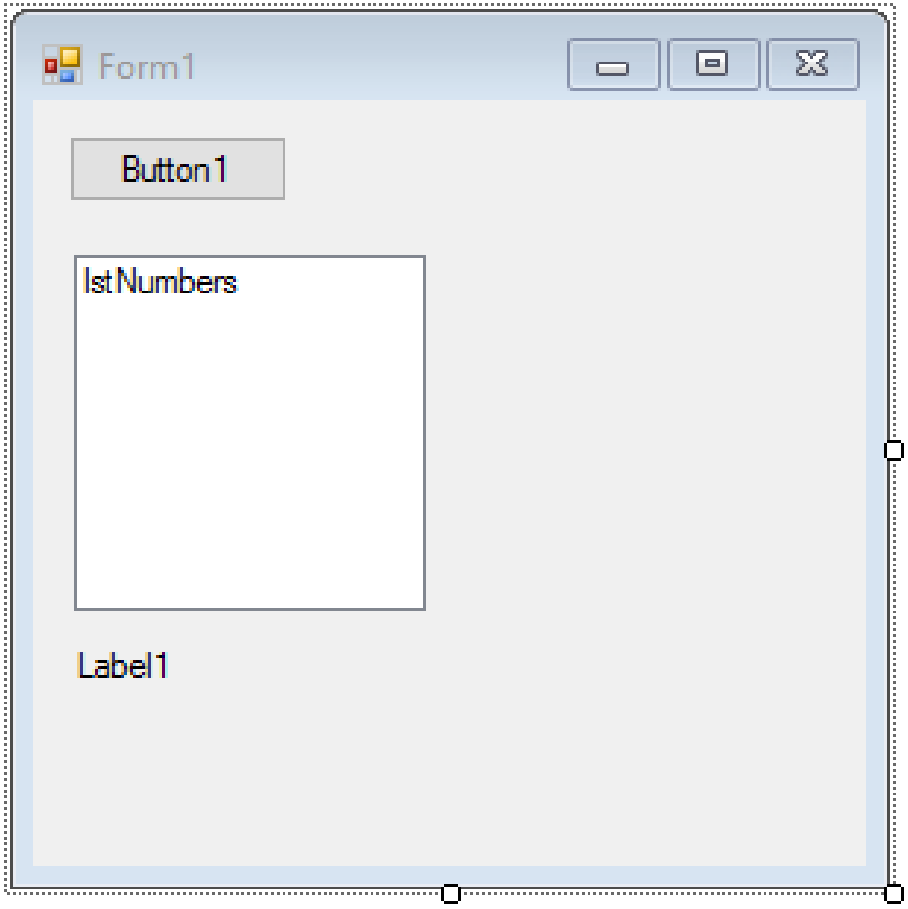
Exercise 17 – Do Loop (Financial Calculation) Code

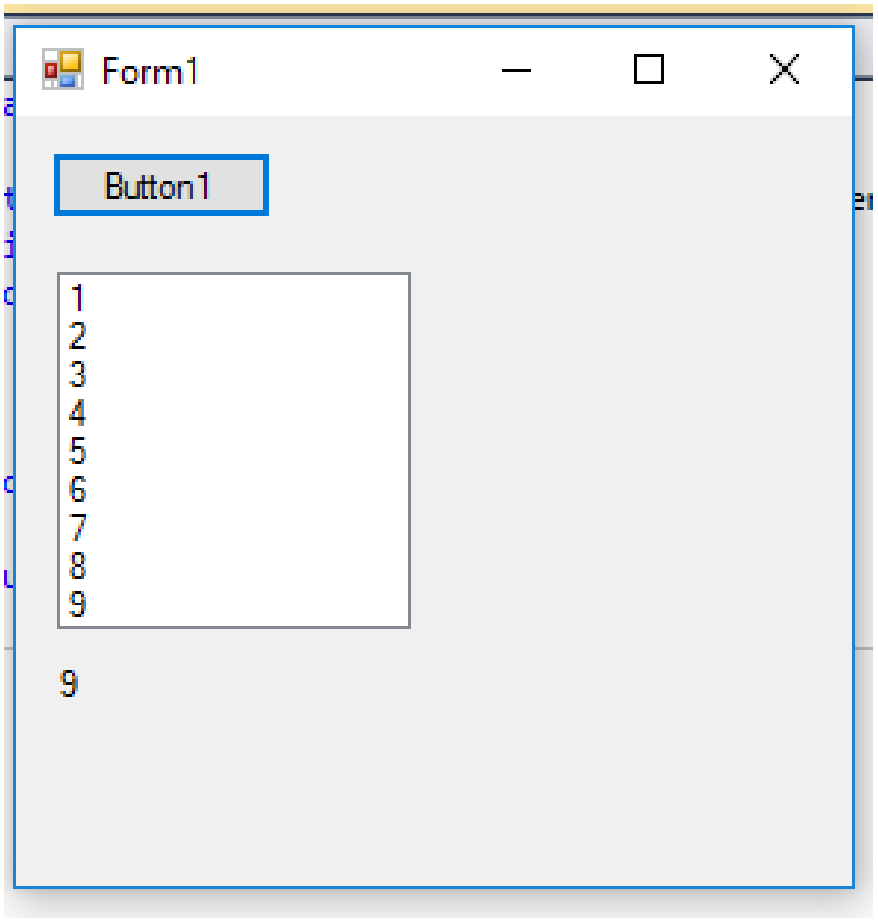
```
Private Sub btnCal_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs) Handles
btnCal.Click
    Dim money As Decimal, Years As Integer

    Do
        money = txtMoney.Text
        money += 0.03 * money
        Years += 1
    Loop Until money >= 1000000
    txtDuration.Text = "In " & Years & " years you
will have a million dollars."

     End Sub
```

Exercise 18 – For Next… Loop (Form and Output)

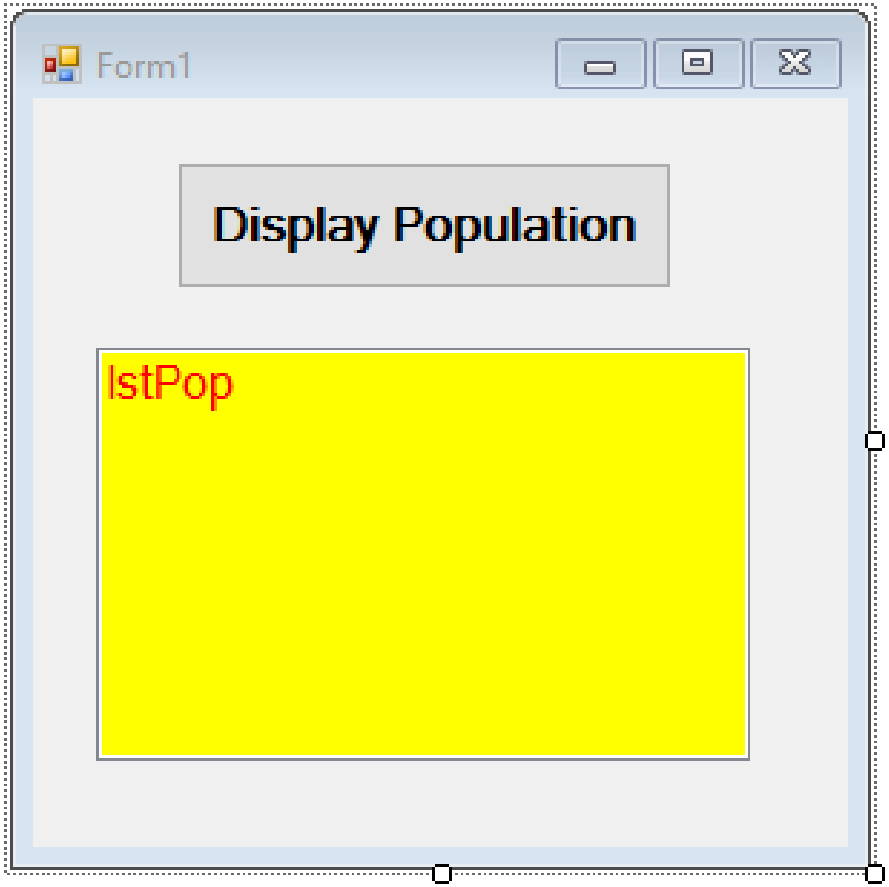


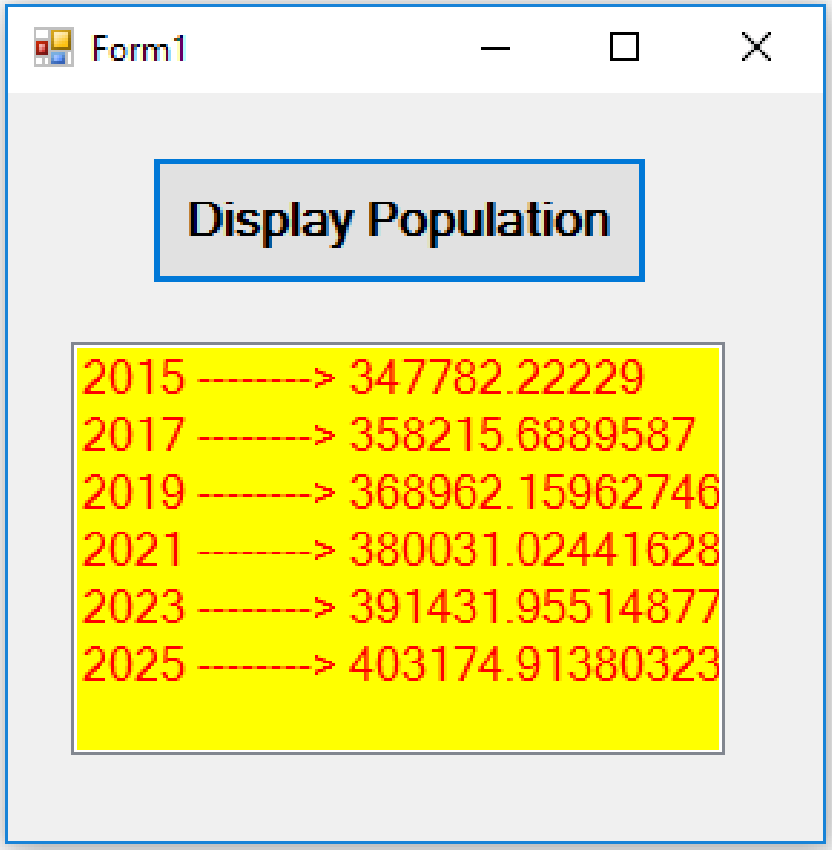


Exercise 18 – For Next… Loop (Form and Output)

```
Private Sub Button1_Click(ByVal sender As
System.Object, ByVal e As
System.EventArgs) Handles BtnDisplay.Click
'Tabulate the numbers from 1 to 9
 For counter As Integer = 1 To 9
      Label1.Text = counter
      ListBox1.Items.Add(counter)
'Add 1 to the value of num
        Loop
    End Sub
```

Exercise 19 – For Next… Loop – With Step Increment (Form and Output)

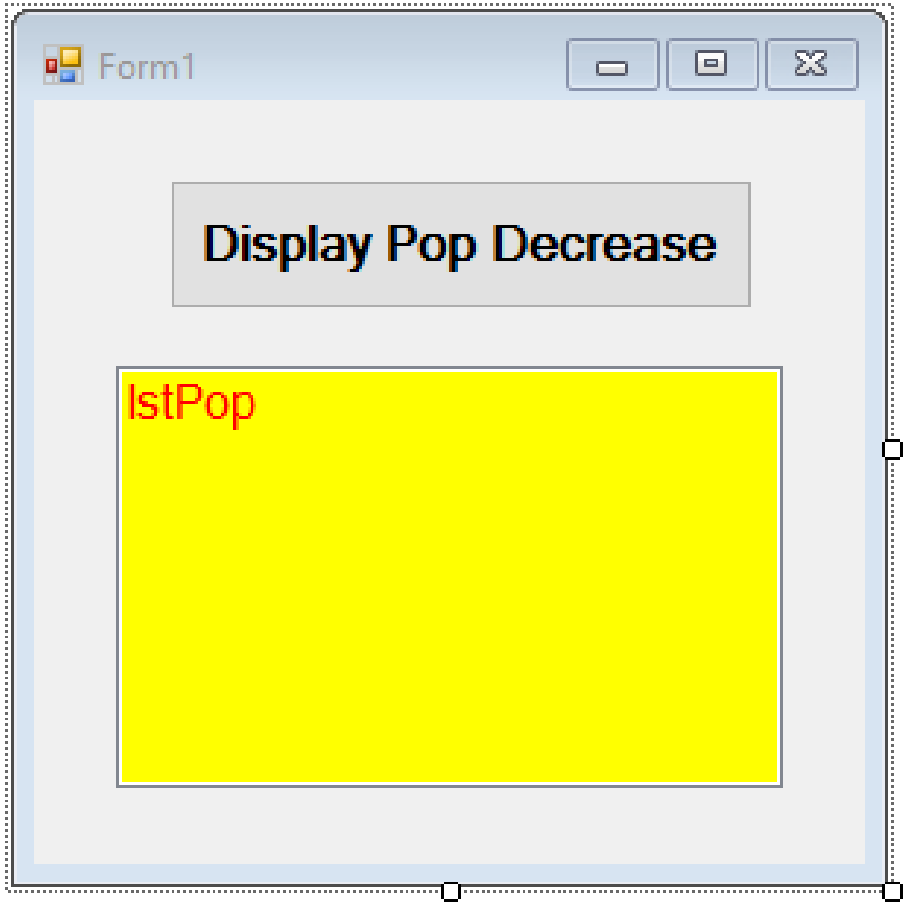


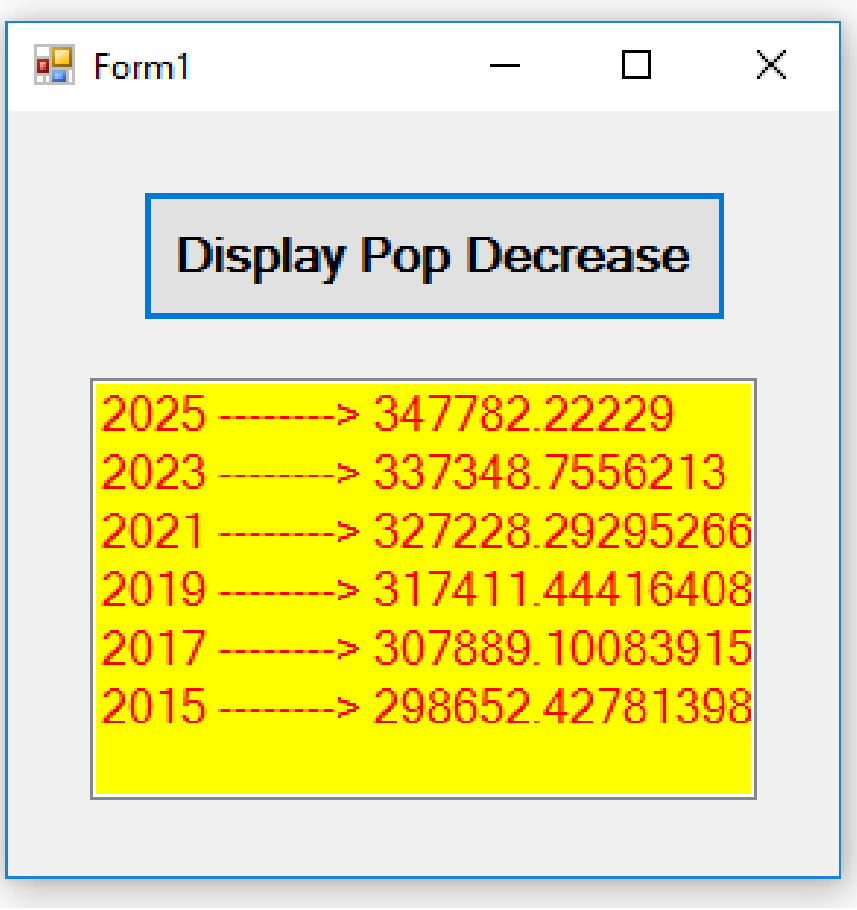


Exercise 19 – For Next… Loop – With Step Increment (Code)

```
Private Sub btnpop_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs)
Handles btnPop.Click
    Dim pop As Double = 347782.22229
    For Year As Integer = 2015 To 2025 Step 2
      lstPop.Items.Add(Year & " --------> " & pop)
      pop += 0.03 * pop
    Next
End Sub
```

Exercise 19 – For Next… Loop – With –ve Step Increment (Form and Output)





Exercise 19 – For Next… Loop – With –ve Step Increment (Form and Output)

```
Private Sub btnPop_Click(ByVal sender As
System.Object, ByVal e As System.EventArgs)
Handles btnPop.Click
  Dim pop As Double = 347782.22229
  For Year As Integer = 2025 To 2015 Step -2
      lstPop.Items.Add(Year & " --------> " & pop)
      pop -= 0.03 * pop
 Next
End Sub
```