

While Loops

`While (expression)` ← As long as this code evaluates as true....

This code will be run ← ...this code will run repeatedly

`End While`

```
Public Class Form1
    Dim x As Integer
    Dim wrap As String = Chr(13) & Chr(10)


---


    Private Sub btnLoop_Click(ByVal sender As System.
        While (x <= 10)

            txtLoop.Text = txtLoop.Text & x & wrap
            x = x + 1
        End While
    End Sub
End Class
```

The screenshot shows a Windows form window titled "Form1". Inside the form, there is a text box containing the numbers 0 through 10, each on a new line. Below the text box is a button labeled "Loop".

Generating 10 Random Numbers

number is the variable that holds the different random numbers.

```
Public Class Form1
    Dim number As Integer
    Dim x As Integer
    Dim wrap As String = Chr(13) & Chr(10)
```

x takes the role of the counter or the accumulator

```
Private Sub btnLoop_Click(ByVal sender As System.Object,
    While (x <= 10)
        number = Int(100 * Rnd()) + 1
        txtLoop.Text = txtLoop.Text & number & wrap
        x = x + 1
    End While
End Sub
End Class
```

The screenshot shows a Windows Form titled "Form1" with a light beige background. A text box in the center contains the following list of numbers, each on a new line: 71, 54, 58, 29, 31, 78, 2, 77, 82, 71, 5. At the bottom center of the form, there is a button labeled "Loop". The form has a standard Windows title bar with minimize, maximize, and close buttons.