

```
1 Option Explicit On
2 Option Strict On
3
4 Public Class RandomNumGenerator
5     Public Function createRandom() As Integer
6         'creates a Random number between 1 and 20 and offsets it by -10 which
           gives a random number
7         'between -10 and 10
8         Dim randomNum As Integer
9         randomNum = Convert.ToInt16(Rnd() * 20 - 10)
10        'initializes randomizer
11        Randomize(DateAndTime.Now.Millisecond)
12        Return randomNum
13    End Function
14    Private Function format(temparray() As Integer, index As Integer) As String
15        Dim tempSummary As String
16
17        If temparray(index) = 10 Or temparray(index) = -10 Then
18            tempSummary &= temparray(index).ToString.PadLeft(4) & " |"
19        Else
20            tempSummary &= temparray(index).ToString.PadLeft(5) & " |"
21        End If
22
23        Return tempSummary
24    End Function
25    Private Sub GenerateNumbersToolStripMenuItem_Click(sender As Object, e As
           EventArgs) _
26        Handles GenerateNumbersToolStripMenuItem.Click,
           GenerateNumbersToolStripMenuItem1.Click,
27        genRandNumButton.Click
28        'Dims a randomArray which is dynamic but has a set number of elements.
29        Dim randomArray(10) As Integer
30        Dim columnWidth As Integer = 0
31        Static summary As String
32        '''clears the list box of previous random numbers
33        'randomNumListBox.Items.Clear()
34
35        'loops through 10 times and calls createRandom to fill the array.
36        For i = 0 To 9
37            randomArray(i) = createRandom()
38            summary &= format(randomArray, i)
39
40        Next
41        randomNumListBox.Items.Add(summary)
42        summary = ""
43
44    End Sub
45
46
```

47 End Class

48