

Question 1:

```
Public Class Form1 'Ilker Hadzhalaran
```

```
    Private Sub btnExit_Click(sender As Object, e As EventArgs) Handles btnExit.Click
        Me.Close()
    End Sub
```

```
    Private Sub btnClear_Click(sender As Object, e As EventArgs) Handles btnClear.Click
        lstDisplayResults.Items.Clear()
        lstDisplayResults.Items.Add("Side A:      Side B:      Side C:      Perimeter:
Area:")
    End Sub
```

```
    Private Sub Form1_Load(sender As Object, e As EventArgs) Handles MyBase.Load
        lstDisplayResults.Items.Add("Side A:      Side B:      Side C:      Perimeter:
Area:")
    End Sub
```

```
    Private Sub btnTriangles_Click(sender As Object, e As EventArgs) Handles
btnTriangles.Click
```

```
        Dim dblA, dblB, dblC, dblHalfPerimeter, dblPerimeter, dblArea As Double
        Static Dim rand As New Random()
        Randomize()
```

```
        For intCounter As Integer = 1 To 5 Step 1
            dblA = 0
            dblB = 0
            dblC = 0
            Do Until ((dblA + dblB > dblC) And (dblB + dblC > dblA) And (dblA + dblC >
dblB))
```

```
                dblA = rand.Next(10)
                dblB = rand.Next(10)
                dblC = rand.Next(10)
```

```
            Loop
```

```
            dblPerimeter = dblA + dblB + dblC
            dblHalfPerimeter = dblPerimeter / 2
```

```
            dblArea = (dblHalfPerimeter * (dblHalfPerimeter - dblA) * (dblHalfPerimeter -
dblB) * (dblHalfPerimeter - dblC)) ^ 0.5
```

```
            lstDisplayResults.Items.Add(dblA.ToString("n1") & "          " &
dblB.ToString("n1") & "          " & dblC.ToString("n1") & "          " &
dblPerimeter.ToString("n1") & "          " & dblArea.ToString("n1"))
```

```
        Next intCounter
```

End Sub

End Class

The screenshot shows a Windows application window titled "Form1". Inside the window, there is a table with five columns: "Side A:", "Side B:", "Side C:", "Perimeter:", and "Area:". The table contains five rows of data. Below the table, there are three buttons: "Triangles", "Clear", and "Exit". The "Triangles" button is highlighted with a blue border.

Side A:	Side B:	Side C:	Perimeter:	Area:
9.0	3.0	8.0	20.0	11.8
8.0	2.0	9.0	19.0	7.3
7.0	7.0	1.0	15.0	3.5
8.0	8.0	9.0	25.0	29.8
5.0	3.0	5.0	13.0	7.2

Triangles Clear Exit

Form1

Side A: Side B: Side C: Perimeter: Area:

Triangles Clear Exit

The image shows a standard Windows application window. The title bar is green and contains the text 'Form1' along with standard minimize, maximize, and close buttons. The main content area is a large white rectangle. At the top of this area, there are five labels: 'Side A:', 'Side B:', 'Side C:', 'Perimeter:', and 'Area:'. At the bottom of the window, there is a light gray bar containing three buttons: 'Triangles', 'Clear', and 'Exit'.