

LAB #9 KEY

Program 1

```
Imports System.IO
```

```
Public Class Form1
```

```
    Private Sub btnAnalyze_Click(sender As Object, e As EventArgs) Handles  
        btnAnalyze.Click
```

```
        Dim srInputFile As StreamReader  
        Dim dblMean As Double  
        Dim dblTotal As Double  
        Dim intCount As Integer  
        Dim dblMax As Double  
        Dim intCounter As Integer
```

```
        srInputFile = File.OpenText("shareDistribution.txt")  
        intCount = CInt(srInputFile.ReadLine())
```

```
        Dim dblShareArray(intCount - 1) As Double
```

```
        For intCounter = 0 To intCount - 1  
            dblShareArray(intCounter) = CDb1(srInputFile.ReadLine())  
        Next
```

```
        srInputFile.Close()
```

```
        dblTotal = 0  
        ' compute mean  
        For intCounter = 0 To intCount - 1  
            dblTotal = dblTotal + dblShareArray(intCounter)  
        Next  
        dblMean = dblTotal / intCount  
        lblMeanOutput.Text = CStr(dblMean)
```

```
        ' compute max  
        dblMax = dblShareArray(0)  
        For intCounter = 1 To intCount - 1  
            If (dblShareArray(intCounter) > dblMax) Then  
                dblMax = dblShareArray(intCounter)  
            End If  
        Next  
        lblMaxOutput.Text = CStr(dblMax)
```

```
    End Sub  
End Class
```

Program 2

Imports System.IO

Public Class Form1

Private Sub btnLoad_Click(sender As Object, e As EventArgs) Handles btnLoad.Click

Dim srClientFile As StreamReader

Dim srContactFile As StreamReader

Dim intClientCount As Integer

Dim intContactCount As Integer

Dim intContact As Integer

Dim intClient As Integer

Dim strName As String

Dim intMatches As Integer

intMatches = 0

srClientFile = File.OpenText("clientdatabase.txt")

intClientCount = CInt(srClientFile.ReadLine())

Dim clientNames(intClientCount - 1) As String

For intClient = 0 To intClientCount - 1

clientNames(intClient) = srClientFile.ReadLine()

Next

srClientFile.Close()

srContactFile = File.OpenText("contacts.txt")

intContactCount = CInt(srContactFile.ReadLine())

For intContact = 0 To intContactCount - 1 ' for each name in the file

strName = srContactFile.ReadLine()

For intClient = 0 To intClientCount - 1 ' search the array

If clientNames(intClient) = strName Then

intMatches = intMatches + 1

End If

Next

Next

srContactFile.Close()

lblMatchOutput.Text = CStr(intMatches)

End Sub

End Class