

Problem 1:

```
Imports System.IO
```

```
Class Form1
```

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

```
        Dim srInputFile As StreamReader
```

```
        Dim strName As String
```

```
        Dim dblLastYear As Double
```

```
        Dim dblThisYear As Double
```

```
        Dim dblDollarIncrease As Double
```

```
        Dim dblPercentIncrease As Double
```

```
        Dim dblMaxDollarIncrease As Double
```

```
        Dim strMaxDollarName As String
```

```
        Dim dblMaxPercentIncrease As Double
```

```
        Dim strMaxPercentName As String
```

```
        srInputFile = File.OpenText("divisionSummary.txt")
```

```
        strName = srInputFile.ReadLine()
```

```
        dblLastYear = CDb1(srInputFile.ReadLine())
```

```
        dblThisYear = CDb1(srInputFile.ReadLine())
```

```
        dblDollarIncrease = dblThisYear - dblLastYear
```

```
        dblPercentIncrease = dblDollarIncrease / dblLastYear
```

```
        dblMaxDollarIncrease = dblDollarIncrease
```

```
        strMaxDollarName = strName
```

```
        dblMaxPercentIncrease = dblPercentIncrease
```

```
        strMaxPercentName = strName
```

```
        Do Until srInputFile.EndOfStream
```

```
            strName = srInputFile.ReadLine()
```

```
            dblLastYear = CDb1(srInputFile.ReadLine())
```

```
            dblThisYear = CDb1(srInputFile.ReadLine())
```

```
            dblDollarIncrease = dblThisYear - dblLastYear
```

```
            dblPercentIncrease = dblDollarIncrease / dblLastYear
```

```
            If (dblDollarIncrease > dblMaxDollarIncrease) Then
```

```
                dblMaxDollarIncrease = dblDollarIncrease
```

```
                strMaxDollarName = strName
```

```
            End If
```

```
            If (dblPercentIncrease > dblMaxPercentIncrease) Then
```

```
                dblMaxPercentIncrease = dblPercentIncrease
```

```
                strMaxPercentName = strName
```

```
            End If
```

```
        Loop
```

```
        srInputFile.Close()
```

```

        lblImprovedRawOutput.Text = strMaxDollarName
        lblImprovedPercentOutput.Text = strMaxPercentName
    End Sub
End Class

```

Problem 2:

```

Imports System.IO

Public Class Form1
    Private Sub btnAnalyze_Click(sender As Object, e As EventArgs) Handles
        btnAnalyze.Click
            Dim srInputFile As StreamReader
            Dim intCounter As Integer
            Dim intClientCount As Integer

            Dim strName As String
            Dim intUnitsSold As String

            Dim doubleLowCount As Double
            Dim doubleMedCount As Double
            Dim doubleHighCount As Double

            doubleLowCount = 0
            doubleMedCount = 0
            doubleHighCount = 0

            srInputFile = File.OpenText("clientSummary.txt")
            intClientCount = CStr(srInputFile.ReadLine())

            For intCounter = 1 To intClientCount
                strName = srInputFile.ReadLine()
                intUnitsSold = CInt(srInputFile.ReadLine())
                If intUnitsSold >= 0 AndAlso intUnitsSold < 100000 Then
                    doubleLowCount = doubleLowCount + 1
                ElseIf intUnitsSold < 1000000 Then
                    doubleMedCount = doubleMedCount + 1
                Else
                    doubleHighCount = doubleHighCount + 1
                End If
            Next

            lblLowVolumeOutput.Text = CStr(doubleLowCount / intClientCount)
            lblMediumVolumeOutput.Text = CStr(doubleMedCount / intClientCount)
            lblHighVolumeOutput.Text = CStr(doubleHighCount / intClientCount)

            srInputFile.Close()
        End Sub
    End Class

```