

Assignment #5 – User Defined Procedures and File I/O

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COURSE NAME: STRUCTURED PROGRAMMING

```
1 Imports System.IO
2 Public Class Form1
3     'Declaration of string and streamreader variable
4     Dim myArray() As String
5     Dim srMeasure As StreamReader
6
7     'Function to calculate the Maximum size
8     Function CalcMaxsize() As Double
9         'Declaration of variables
10        Dim nominalSize, upperSize, upperTol As Double
11
12        nominalSize = CDb1(txtNominalSize.Text)
13        upperTol = CDb1(nudUpperTol.Text)
14
15        'Processing
16        upperSize = nominalSize + upperTol
17
18        'return value to the call function
19        Return upperSize
20    End Function
21
22    'Function to calculate the Maximum size
23    Function CalcMinsize() As Double
24
25        'Declaration of variables
26        Dim nominalSize, lowerSize, lowerTol As Double
27        nominalSize = CDb1(txtNominalSize.Text)
28        lowerTol = CDb1(nudLowerTol.Text)
29
30        'Processing
31        lowerSize = nominalSize + lowerSize
32
33        'return value to the call function
34        Return lowerSize
35    End Function
36
37    'Procedure to clear the list box
38    Sub clearlist()
39        LstScap.Items.Clear()
40        LstRework.Items.Clear()
41        LstAccpeted.Items.Clear()
42    End Sub
43
44    Private Sub btnMeasurement_Click(sender As Object, e As EventArgs) Handles btnMeasurement.Click
45
46        'declaring the variable
47        Dim FilePath As String
48
```

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49      'calling the clear list function
50      clearlist()
51
52      'assigning the path to the variable
53
54      FilePath = "C:\Users\aksha\OneDrive - Conestoga College
55                \Measurements.txt"
56      srMeasure = File.OpenText(FilePath)
57
58      'calling the sort part procedure
59      Sortpart()
60
61      'closing the file
62      srMeasure.Close()
63      srMeasure.Dispose()
64
65  End Sub
66
67  'sortpart procedure
68  Sub Sortpart()
69
70      'declaration of the variable
71      Dim MaxSize, MinSize, PartSize As Double
72
73      'calling CalcMaxsize and CalcMinsize function
74      MaxSize = CalcMaxsize()
75      MinSize = CalcMinsize()
76
77      Do While srMeasure.EndOfStream = False
78
79          'splitting and storing the value to the array
80          myArray = srMeasure.ReadLine().Split(",")
81          PartSize = Double.Parse(myArray(1))
82
83          'checking the conditons for the various size and diplay the value
84          to the list box
85          If PartSize < MinSize Then
86              LstScap.Items.Add("(" & myArray(0) & ") " & myArray(1) & " mm")
87              LstScap.Items.Add(vbCrLf)
88
89          ElseIf PartSize > MaxSize Then
90              LstRework.Items.Add("(" & myArray(0) & ") " & myArray(1) & "
91              mm")
92              LstRework.Items.Add(vbCrLf)
93
94          Else
95              LstAccpeted.Items.Add("(" & myArray(0) & ") " & myArray(1) & "
96              mm")
97              LstAccpeted.Items.Add(vbCrLf)
98          End If
99      End While
100  End Sub
```

```
94
95
96
97     Loop
98 End Sub
99 'when Quit button is pressed program closes
100 Private Sub btnQuit_Click(sender As Object, e As EventArgs) Handles  btnQuit.Click
101     Me.Close()
102 End Sub
103 End Class
104
```