

# COMPUTATIONAL METHODS

## Visual Basic Programming – Demonstration Program 7

```
' FileIO - Demonstrate file open/save, and text reading/writing
'
' You need this reference for the StreamReader/Writer classes
Imports System.IO

Public Class Form1
    '
    ' Respond to File|Open menu item
    Private Sub OpenToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles OpenToolStripMenuItem.Click
        '
        ' show an open file dialog
        If OpenFileDialog1.ShowDialog() = Windows.Forms.DialogResult.OK Then
            ' read the file using a StreamReader object
            Dim line As String
            Dim sr As StreamReader = New StreamReader(OpenFileDialog1.FileName)
            ' clear the list box
            ListBox1.Items.Clear()
            ' while there are lines still to be read
            While Not sr.EndOfStream
                ' get a line
                line = sr.ReadLine()
                ' add to listbox
                ListBox1.Items.Add(line)
            End While
            ' close file
            sr.Close()
        End If
    End Sub
    '
    ' Respond to File|Save As menu item
    Private Sub SaveAsToolStripMenuItem_Click(ByVal sender As System.Object,
ByVal e As System.EventArgs) Handles SaveAsToolStripMenuItem.Click
        '
        ' show a save file dialog
        If SaveFileDialog1.ShowDialog() = Windows.Forms.DialogResult.OK Then
            ' write the file using a StreamWriter object
            Dim line As String
            Dim sw As StreamWriter = New StreamWriter(SaveFileDialog1.FileName)
            ' for each line in the listbox
            For i As Integer = 0 To ListBox1.Items.Count - 1
                ' get the line
                line = ListBox1.Items.Item(i)
                ' write it to file
                sw.WriteLine(line)
            Next
            ' close file
            sw.Close()
            MsgBox("Saved " & ListBox1.Items.Count & " lines to " &
SaveFileDialog1.FileName)
        End If
    End Sub
    '
    ' Respond to File|Exit menu item
```

```
Private Sub ExitToolStripMenuItem_Click(ByVal sender As System.Object,  
ByVal e As System.EventArgs) Handles ExitToolStripMenuItem.Click  
End  
End Sub  
End Class
```

