

```

Public Class Form1
    'Lab 4 - CE 311k
    'This program reads in monthly temperature from an input file,
    'calculates the average annual temperature and writes to an output
    'file

    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button1.Click
        Dim sr As IO.StreamReader =
IO.File.OpenText("C:\temp\temperature.txt")
        Dim sw As IO.StreamWriter =
IO.File.CreateText("C:\temp\output.txt")

        Dim Line, Text(), month As String
        Dim temp, average, sum As Double

        sum = 0
        sw.WriteLine("This is the output file")
        sw.WriteLine("Month      Temperature")

        'January
        Line = sr.ReadLine
        Text = Line.Split(" ")
        month = Text(0)
        temp = Text(1)
        sum = temp + sum
        ListBox1.Items.Add(month & "      " & temp)
        sw.WriteLine(month & "      " & temp)

        'February
        Line = sr.ReadLine
        Text = Line.Split(" ")
        month = Text(0)
        temp = Text(1)
        sum = temp + sum
        ListBox1.Items.Add(month & "      " & temp)
        sw.WriteLine(month & "      " & temp)

        'March
        Line = sr.ReadLine
        Text = Line.Split(" ")
        month = Text(0)
        temp = Text(1)
        sum = temp + sum
        ListBox1.Items.Add(month & "      " & temp)
        sw.WriteLine(month & "      " & temp)

        'April
        Line = sr.ReadLine
        Text = Line.Split(" ")
        month = Text(0)
        temp = Text(1)
        sum = temp + sum
        ListBox1.Items.Add(month & "      " & temp)
        sw.WriteLine(month & "      " & temp)

```

```
'May
Line = sr.ReadLine
Text = Line.Split(" ")
month = Text(0)
temp = Text(1)
sum = temp + sum
ListBox1.Items.Add(month & " " & temp)
sw.WriteLine(month & " " & temp)
```

```
'June
Line = sr.ReadLine
Text = Line.Split(" ")
month = Text(0)
temp = Text(1)
sum = temp + sum
ListBox1.Items.Add(month & " " & temp)
sw.WriteLine(month & " " & temp)
```

```
'July
Line = sr.ReadLine
Text = Line.Split(" ")
month = Text(0)
temp = Text(1)
sum = temp + sum
ListBox1.Items.Add(month & " " & temp)
sw.WriteLine(month & " " & temp)
```

```
'August
Line = sr.ReadLine
Text = Line.Split(" ")
month = Text(0)
temp = Text(1)
sum = temp + sum
ListBox1.Items.Add(month & " " & temp)
sw.WriteLine(month & " " & temp)
```

```
'September
Line = sr.ReadLine
Text = Line.Split(" ")
month = Text(0)
temp = Text(1)
sum = temp + sum
ListBox1.Items.Add(month & " " & temp)
sw.WriteLine(month & " " & temp)
```

```
'October
Line = sr.ReadLine
Text = Line.Split(" ")
month = Text(0)
temp = Text(1)
sum = temp + sum
ListBox1.Items.Add(month & " " & temp)
sw.WriteLine(month & " " & temp)
```

```
'November
Line = sr.ReadLine
Text = Line.Split(" ")
```

```

month = Text(0)
temp = Text(1)
sum = temp + sum
ListBox1.Items.Add(month & " " & temp)
sw.WriteLine(month & " " & temp)

'December
Line = sr.ReadLine
Text = Line.Split(" ")
month = Text(0)
temp = Text(1)
sum = temp + sum
ListBox1.Items.Add(month & " " & temp)
sw.WriteLine(month & " " & temp)

'calculate the average temperature
average = sum / 12

ListBox1.Items.Add("The annual average temperature is " &
FormatNumber(average, 1) & " °F")
sw.WriteLine("The annual average temperature is " &
FormatNumber(average, 1) & " °F")
sw.Close()
End Sub

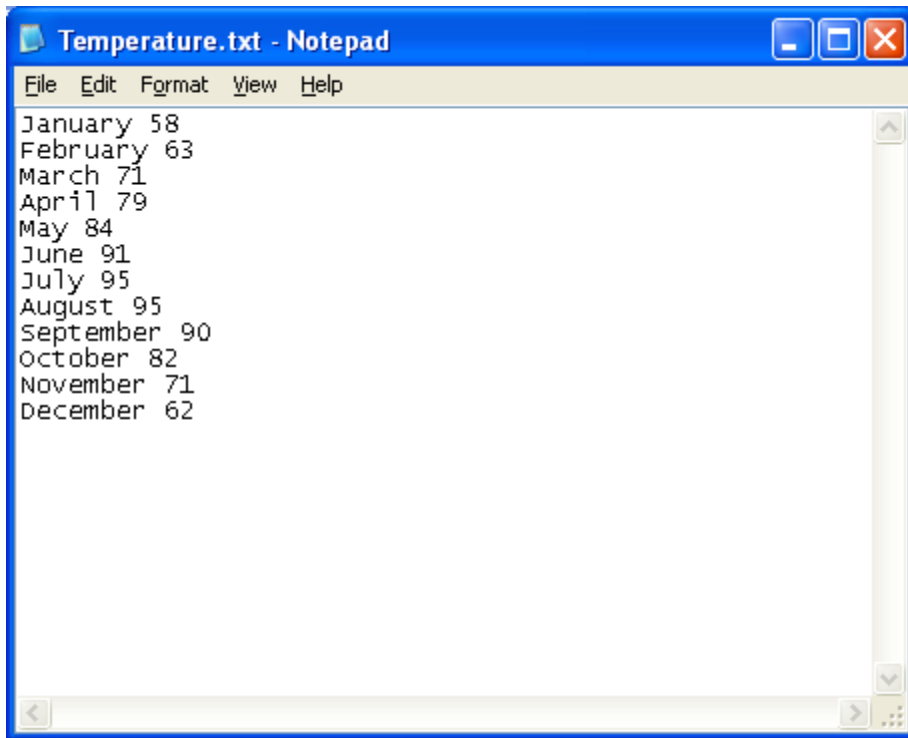
Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As
System.EventArgs) Handles Button2.Click
End
End Sub
End Class

```

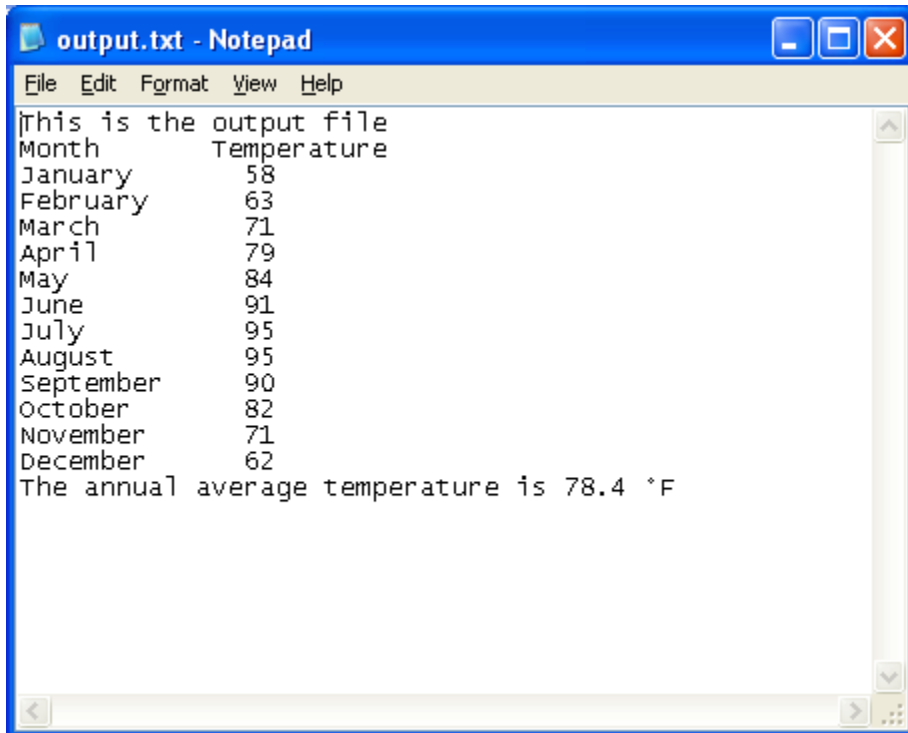
The screenshot shows a window titled 'Form1' with a list of months and their average temperatures. The data is as follows:

Month	Average Temperature (°F)
January	58
February	63
March	71
April	79
May	84
June	91
July	95
August	95
September	90
October	82
November	71
December	62
The annual average temperature is 78.4 °F	

At the bottom of the window, there are two buttons: 'Go' and 'Stop'.



```
Temperature.txt - Notepad
File Edit Format View Help
January 58
February 63
March 71
April 79
May 84
June 91
July 95
August 95
September 90
October 82
November 71
December 62
```



```
output.txt - Notepad
File Edit Format View Help
This is the output file
Month      Temperature
January    58
February   63
March      71
April      79
May        84
June       91
July       95
August     95
September  90
October    82
November   71
December   62
The annual average temperature is 78.4 °F
```