

**Post-Grad
LabVIEW Course
Exercise 7
G Boorman**

Exercise 7 - Debugging

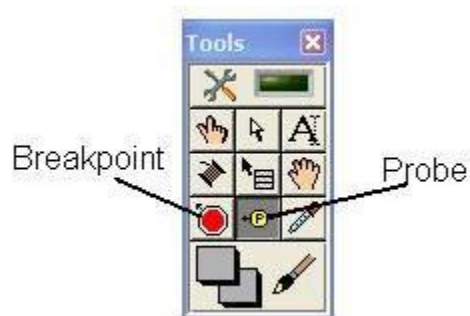
Open Temperature Logger File.vi.

1. Click on the Highlight Execution button and run the VI.



Watch the flow of data on the diagram. Notice how each VI only runs when data at all its inputs are valid.

2. Turn off Execution Highlighting.
3. Put a Probe on the *Refnum Out* of Open/Create/Replace and run the VI.



This value is used internally by Labview as a reference to the file.

4. Add a probe on the array input to Array Min/Max and then run and stop the VI. Each element of the array of data created can be viewed by altering the index value. If an index value is beyond the size of the array the data displayed will be greyed out (invalid).
5. Close the Probe Watch Window and then run the VI. Press Pause. The VI will halt and then resume when Pause is pressed again. Stop the VI.
6. Using the Breakpoint tool put a Breakpoint on Number To Fractional String and run the VI. The VI will pause when this Breakpoint is reached. Press the pause button to resume. The Breakpoint can be cleared by using the Breakpoint tool and clicking on the Breakpoint and pressing pause to resume. Stop the VI.

End of Exercise