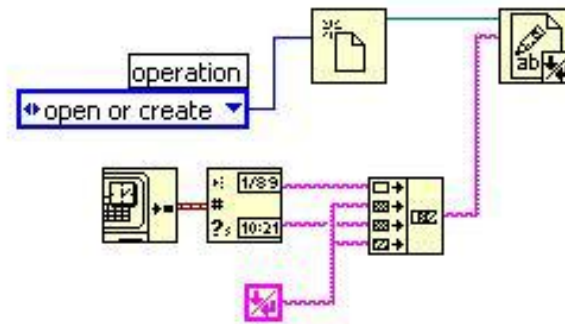


**Post-Grad  
LabVIEW Course  
Exercise 8  
G Boorman**

## Exercise 8 – Using the Error Cluster

Open Temperature Logger File.vi.

1. Create a sub-VI for opening the log file and writing header data.
  - a. Highlight the following items by drawing a rectangle around them by using the left mouse button.



- b. On the edit menu select Create SubVI.
    - c. Open this new subVI. Add an Error Out cluster on the front panel and wire to the Error Out terminal of Write to Text File.
    - d. Notice the refnum out indicator already created. Rename this to 'logfile refnum'.
    - e. Right click the Icon and display the connector pane. Ensure the 4x2x2x4 (standard) connector pane is used.
    - f. Wire the Error Out cluster to the bottom right and logfile refnum to the top right terminal.
    - g. Make the Icon something meaningful and save the VI as Logfile Open.vi.
    - h. On the diagram of Temperature Logger File.vi notice the VI created is now greyed out. Right click the VI and select *Relink to SubVI*.
2. Put a Case structure around all of the items on the diagram except the Logfile Open.vi. Wire from Error Out of Logfile Open.vi to the Selector of the

Case structure. The *No Error* case should contain the While loop etc.  
Save the VI.

3. Run the VI, and select Cancel when prompted for a filename. Select Continue in the dialogue box. An error is generated when Cancel is selected in the filename prompt, and the Case structure runs case Error rather than No Error.
4. Ensure the VI runs correctly when a valid filename is used.

**End of Exercise**