

## Homework #1 Engineering 0012 – Spring 2009

**Due:** Tuesday January 13, 2009

1. Do Problem 4 in the text, page M-110. Make sure the M-file has the proper amount of comment lines, indented text, white space, etc. Also, make sure the names of the group members are in comment lines on the top of the file.
2. In addition, to the listed requirements add a section that:
  - a. Use the help command on the command **exist**. Then add a section to check to make sure the data file exists. If it does not ask the user for another filename.
  - b. Do not use the color white as a symbol color choice
  - c. Displays the x and y data to the screen,
  - d. Displays the symbol type and color to the screen as text, such as “The data point will be plotted as a yellow star”
  - e. Calculate the number of data points and displays the number of data points on the plot.
3. Use the following two data sets to test the program. (The first line is the x data and the second line is the y data. The files are in the Get directory.) The first data set should have the data stored in rows. The second data set should have the data stored in columns.

Dataset 1

3 6 8 1 2 4 5 9 7

8 5 1 4 9 3 6 8 2

Dataset 2

2 5

4 6

1 3

5 0

3 8

6 7

7 2

8 1

9 4

### **Deliverable:**

You will turn your M-file and the data files.