

## **Homework #6**

### **Engineering 0711 - Fall 2009**

**Due:** Wednesday September 30

1. Your task is to write a MATLAB script that will plot a set of data. The script should:
  - a) Have a section that allows the user to enter the name of a data file.
  - b) Be capable of reading data stored in either rows or columns.
  - c) Use a menu together with a switch case to allow the user to select the type of the plot symbol.
  - d) Once the symbol type is entered, use a input command with a if statement to select the color of the symbol. Make sure the script has a section that checks for user input error, and only allows a correct input.
  - e) Once the data is entered, it should plot the x - y plot.
  - f) Have a section that will allow the user to enter the plot title, and x and y axis labels.
  - g) Once the user is satisfied with the results the script should allow the user to enter a new set of data without ending the program. Do not use a menu for this. Make sure the script allows for user input error.
2. 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.
3. Create two data sets to test the program. The first data set should have the data stored in rows, use at least 20 data points. The second data set should have the data stored in columns, use at least 20 data points. Do not use data that appears to fit a straight line.

### **Deliverable:**

You will turn in your m-file and data files in the drop folder.