**MAT 7500 – Spring 2017**

**Practice Problem for SAS Lecture 1**

**Problem 1**: Type in the following program:

options linesize=78 nodate nonumber;

data mydata;

input name $ score1 score2 score3 score4 score5 final;

cards;

Gamma1 11.25 9.75 10 10 10 90

Delta1 9.5 7.5 8 10 10 95

Epsilon1 11.5 10 9.75 3.5 10 100

Theta1 12.5 10 9.5 9 10 100

;

run;

proc print data=mydata;

run;

**a)** Run the program. Examine its output, print out both the log and output files.

**b)** Rewrite the program so all the data may be written in one CARD line instead of four. Change the cards section appropriately and rerun the program to verify it works as expected. Hand in your SAS code and output file.

**c)** Restore the original program. Change "theta1" to "theta 1" (so there is a blank between theta and 1). Run the program again. Were any error lines produced in the "log" file? Is the output what you expected? Assuming that you really want the name to be "theta 1" (space and number included), what should you do? You may reformat, but not \*change\* the data. Modify the SAS code to reflect your solution, and run it to verify that it works. Hand in your SAS code and the answers to the above questions.

**Problem 2**: Write and submit a SAS program to read and print the following data set:

School\_District teachers students

Granite 5829 200486

Jordan 12433 318992

Davis 2358 126331

Hand in the SAS code and the output file.

**Problem 3**: Type in the following program regarding meeting times, locations, etc.

data mydata;

input Time $ With $ Place $ Subject $ Length\_of\_Meeting $

cards;

11:00 Sally Room 30 Personnel Review 45 minutes

1:00 Jim Jim’s Office Brake design 30 minutes

3:00 Nancy Lab Test results 30 minutes

;

run;

proc print data=mydata;

run;

We want the output to look like:

Obs Time With Place Subject Meeting

1 11:00 Sally Room 30 Personnel Review 45 minutes

2 1:00 Jim Jim’s Office Brake design 30 minutes

3 3:00 Nancy Lab Test results 30 minutes

1. Did the above code work? Print out both the log and the output file
2. Modify the above code to get the data entered correctly. Print out the code and the output file.