**Computing Assignment #1**

**Goals: Familiarize yourself with basic SAS**

1. Data Import/Export
2. Familiarize yourself with handling variable TYPEs (Character and Numeric)
3. Become familiar with handling Date variables
4. Convert Character or Numeric variables to SAS Date variables
5. Learn how to format variables for output
6. Know how to calculate basic statistics in SAS

**Assignment**

**Part (a) Working with a txt file**

The file ibm.txt is from CRSP downloaded from WRDS. It contains information on IBM from 2007-2014. The variables and column numbers are as follows:

|  |  |
| --- | --- |
| Variable name | Column |
| permno | 4-8 |
| date | 9-18 |
| comnam | 19-50 |
| prc | 51-61 |
| ret | 62-69 |
| shrout | 70-78 |
| distcd | 86-89 |
| divamt | 95-97 |
| vwretd | 98-106 |

Step one – create dataset

1. Write an input statement to read in the variables from file ibm.txt, then:
2. Redefine -99 as missing for distcd and divamt.
3. Reformat the variable “date” to appear in your output as 03JAN2007
4. Create a new variable called mve equal to the ibm’s market value of equity in millions (i.e., prc \* shrout \* 0.001). Format to show three decimal places in your output.

Step two – analysis

1. Print the first 30 observations of the dataset.
2. Using proc means, calculate the mean, standard deviation, min, max, and number of observations by year for variables ret and mve,

Part (b): **Working with an excel file**

Go to WRDS and download the same variables as in part (a) and save as an excel file. Repeat the above analysis, using the excel file as the input file. When creating the excel file in WRDS, use the first date format (i.e., YYMMDDn8.)