**MAT1372**

**Project #1**

**Due Date: Tuesday, February 18, 2014**

**Maximum points on this project: 10 points**

Create EXCEL file name: FirstName LastName-Project 1-MAT1372-Sp2014

Submit by the due date to: shan@citytech.cuny.edu

To get full credits for the project, you must:

1. Turn in the project on time. One point will be deducted for “each day” (including weekends and holidays) that the project is late.
2. State the goal (or the problem) of the project.
3. State the process, including EXCEL commands used.
4. State the results.
5. Get data on annual snow fall (in inches) in Central Park, NY: <http://www.erh.noaa.gov/okx/climate/records/monthseasonsnowfall.html>
6. Organize the data into bins and frequency distribution, so it gives annual snow fall ranges (intervals) and frequency (number of years).
7. Construct a histogram which plots the annual snow fall on x-axis and number of years on y-axis.
8. Use EXCEL commands to calculate directly the mean, median, sample standard deviation, and sample variance on the annual snow fall data.
9. Use the blood pressure data from class work Section 2.3-Jan-30-14 to compute the following:
10. Find the midpoint for each class interval. Assume the first interval “less than 90” is the interval “80-90”.
11. Use the midpoint as the average data value (X). Find the mean blood pressure for each group: Aged 30-40 and Aged 50-60. Also find the median and mode for each group.
12. Set up data columns to calculate the sample standard deviation and sample variance of the blood pressure for each group.
13. Construct a relative frequency graph for the two groups.