CSE 2400

**Applied Statistics**

**Spring 2017**

# Python Assignment 2

## Due before midnight, Wednesday, March 22, 2017

Reading Assignment: Read Chapter 4 of Python Programming in Context.

Programming Assignment: Construct a Python function called summary() that will compute the following:

Measures of Central Tendency

* Dataset Mean (Listing 4.4)
* Dataset Median (Listing 4.5)
* Dataset Mode/Modes (Listing 4.7)

Measures of Dispersion

* Dataset Minimum (Listing 4.3 modified for minimum)
* Dataset Maximum (Listing 4.3)
* Dataset Range (Listing 4.1)
* Dataset Standard Deviation (Listing 4.7)
* Dataset Frequency Table (Listing 4.8,table only, no histogram required)

Test your code using the following datasets:

From Baron (our textbook), use the data from problems:

8.2, 8.8 {(1), (2), (3)}

Also, use the following datasets:

Dataset A:

3, 3, 3, 3, 3, 3, 3, 3, 3, 3

Dataset B:

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Dataset C:

4, 6, 5, 7, 8, 1, 9, 2, 50000

Submit your .py code (which includes all of your test case examples) to Canvas using the name XXXXXX.py where XXXXX is the first 6 letters of your last name.

Place a commented area at the beginning of your code identifying:

* Your name
* CSE 2400
* Python Assignment 2
* Completion Date