## **INFSCI 0017 – Fundamentals of Object-Oriented Programming (Fall 2018)**

## **Lab 7**

## Topics Reviewed

1. Arrays

## Grading and Submission

You are to write a complete Java program that meets the requirements outlined in the Lab 2 Tasks section.

Once you have completed the program, you should demonstrate your program for your Lab TA.

There will be 6 points for this lab, broken down in the following way:

1. Each of the 4 required methods is worth 1 point.

Note that if your program does not compile, the TA will not grade it.

## Lab 7 Tasks

You are to write the following 4 methods:

* ***public static double max(double [] data)*** - return the maximum value in the array.
* ***public static double min(double [] data)*** - return the minimum value in the array
* ***public static double sum(double [] data)*** - sum the items in the array and return the result
* ***public static double ave(double [] data)*** - call sum to get the sum and then return the average

Once you have completed the methods above, write a simple main program that does the following:

1) Asks the user how many items will be entered

2) Creates an array of double of the correct size

3) Fills the array with randomly generated values

4) Calculates and prints out max, min, sum and average using the methods above