**MATH 472/572 Comp Stat , Spring 2020**

**Homework 1**

Date Assigned: 01/16, Thursday

Due Date: 01/23, Thursday, 1:30PM

Rules for HW:

* You are allowed to discuss HW with fellow students in the course, but the work you hand in must be your own.
* You have to write your own Python code by yourself. You are prohibited from sharing, copying or editing any Python code from other students.

How to turn in your HW?

* Submit your code in Jupyter Notebook format (.ipynb file) through blackboard HW1 link. The deadline for code submission is the class starting time 1:30PM of the due date.

Assignments:

1. Write a Python script to implement the bisection algorithm in Example 2.1 (page 23 of the Book: *Computational Statistics* by Givens & Hoeting).

Required Output:

1. Print the number of iterations and the final solution.
2. Plot Figure 2.1 produced by your Python script.
3. Plot Figure 2.2 produced by your Python script.