CSE 015: Discrete Mathematics
Fall 2019
Lab Assignment #1

You have TWO LAB SESSIONS to complete this lab, the week of Sept. 23 and the week of Sept. 30.

YOUR SOLUTION MUST BE DEMONSTRATED TO YOUR TA DURING LAB NO LATER THAN THE LAB SESSIONS IN THE WEEK OF SEPT. 30:

CSE-015-02L LAB W 7:30-10:20am: IN LAB OCT. 2

CSE-015-03L LAB W 10:30-1:20pm: IN LAB OCT. 2

CSE-015-04L LAB F 10:30-1:20pm: IN LAB OCT. 4

CSE-015-05L LAB M 1:30-4:20pm: IN LAB SEPT. 30

CSE-015-06L LAB W 1:30-4:20pm: IN LAB OCT. 2

CSE-015-07L LAB F 1:30-4:20pm: IN LAB OCT. 4

CSE-015-08L LAB W 7:30-10:20pm: IN LAB OCT. 2

CSE-015-09L LAB F 7:30-10:20am: IN LAB OCT. 4

CSE-015-10L LAB M 7:30-10:20pm: IN LAB SEPT. 30

CSE-015-11L LAB R 7:30-10:20pm: IN LAB OCT. 3

If you finish in the first week, you can demonstrate your solution to your TA then and you don't need to attend the second week.

You must demonstrate your solution to YOUR TA IN YOUR LAB SESSION. You cannot demonstrate to another TA or in a lab session other than your own.

This lab assignment is to introduce you to and give you some practice with the Python programming language. See the slides "Introduction to Python" for getting started and for help with the solutions.

1. **Problem 1: Modified Hello World (10 pts.)**

   Write a Python program that asks the user for his/her name, and prints out a greeting message of the form `"Hello, <name>"`, where `<name>` is the input received from the user.

2. **Problem 2: Integer Classification (10 pts.)**

   Write a Python program that asks the user to enter an integer. Your program should print `ODD` if the integer is odd, and `EVEN` if the integer is even. Reminder: an even integer can be represented as $2x$, and an odd integer can be represented as $2x + 1$, where $x \in \mathbb{Z}$.

3. **Problem 3: Largest Integer (10 pts.)**

   Write a Python program that asks the user to enter 10 integers, and outputs the largest number among them.

   You are not allowed to use built-in Python functions like `sort()` or `max()`. You must implement your solution using loops (`for`) and conditionals (`if`).

4. **Problem 4: Largest Odd Integer (10 pts.)**

   Write a Python program that asks the user to enter 10 integers, and outputs the largest odd number among them. If no odd numbers were entered, your program should output a message saying: `"No odd numbers were entered"`.

   You are not allowed to use built-in Python functions like `sort()` or `max()`. You must implement your solution using loops (`for`) and conditionals (`if`).