

## CS 299–Introduction to Data Science, HW1

1. Install and learn basic python by following the lecture given in class. Type in all commands or change the commands to see what happens. Initial at one of the following.

\_\_\_\_ I certify that I have installed Anaconda or similar python environment and have practiced python by following the tutorial.

\_\_\_\_ I already know python and therefore I choose not to do this exercise. I understand that it is my own decision and I am responsible for all consequences.

2. Python programming. Please use the [code skeleton](#) provided
  - a. Write a python function to merge 2 sorted lists.
  - b. Write a python function to calculate the summary statistics of an array of numbers: max, min, mean, standard deviation, median, 75 percentile, 25 percentile. You can write your own functions or use any existing modules from math, statistics or numpy
  - c. Write a python function that accepts a list of numbers in any range, then scales the numbers to [0, 1] using MinMax algorithm (given in the skeleton code).

### What to turn in:

Each file must exactly follow the naming convention: **Lastname-299-A1.zip**

Hw1.py

HW1.pdf (Question 1)

In addition, each .py file must contain the following information at the top:

CS141

HW1

@author: