In class exercises for Class01 on 01.16.2019
John Serences (jserences@ucsd.edu)

Continue to use your notebook from the lecture, but please insert a text cell and a note to indicate where your problem set begins so that I can easily find your answers.

Please also number your answers with a short comment like: #1a, 1b...3a...etc.

Do all work in your notebook, and make sure to run each cell of code before you move on.

1) Pick out your four favorite things to eat and put the names of the food in a list.
    a) Use a 'for' loop to print out the name of each food
    b) Now modify the print statement so that it prints out "Hi, my name is XX, and I really like YY" where XX is your name, and YY is the name of each of your favorite foods (so print out each food on a different line)
    c) Print "I like all of these foods!" one time, <u>after</u> your loop finishes executing.

2) Write a 'for' loop to print the numbers from 0 to 10, exclusive
    a) Then make the loop print the numbers from 0 to 10, inclusive
    b) Use a **list comprehension** to make a new list to store the cube of each number in your list plus 2
    c) Compute the sum, min, and max of the numbers in the new list

3) Make a **list** of the numbers from 0 to 30, exclusive. Think about how to make this list most efficiently - you should not be typing in the numbers manually to your list.
    a) Use slicing to print the first 5 numbers in the list
    b) Then print the square of the even numbers
    c) Then make another list of 30 numbers, also from 0-30 exclusive
    d) Write two for loops, one inside the other, to print the product of each element in the first list with every element in the second list

4) Make a list of 3 names (or whatever you'd like). Use a 'for' loop to print the names in reverse order. Hint: use range(start, stop, step) to index into your list.