

## CS 101 Homework 6

### LOOPS

#### PLEASE READ THE ITEMS BELOW CAREFULLY:

Create a new Python script file and name it *yourlastname\_homework6.py*, where *yourlastname* is your last name. Save your file in your homework folder on your computer (a folder that you can easily find). When finished, upload your file on Google Classroom using Homework 6 assignment link. I should be able to run your complete code without errors.

#### Task 1

Print numbers from 0 to 9. Number 9 should be included.

#### Task 2

Print numbers from 50 to 60. Number 60 should be included.

#### Task 3

Print all odd numbers from 33 to 55. Number 55 should be included.

#### Task 4

Can you print numbers from 10 to 20, in decreasing order (20, 19..., 11, 10). Number 10 should be included. Hint: what should be the starting value, the end value, and the step value?

#### Task 5

Print all odd numbers between 10 and 40 in decreasing order.

#### Task 6

Print all hundredths between 0.1 and 0.3, for example, 0.10, 0.11, 0.12 and so on all the way to 0.30 (included). Hint: `range()` only accepts integer arguments. However, you can use simple math to change your values.

#### Task 7

Print all multiples of 7 between 0 and 100. Use for loop to iterate over all numbers between 0 and 100. Use if statement with modulus operator to identify and print the relevant numbers. (Yes, this is not an efficient way to complete the task, but I would like you practice using the for and while loops).

#### Task 8

Repeat task 7 using an alternative approach. Hint: remember that `range()` includes a step argument.

#### Task 9\*

Print all even numbers between 0 and 200 which have a "7" in them. Hint: This task may involve converting numbers into strings.