

**CS 101**  
**ASSIGNMENT 4: FOR AND WHILE LOOP**

Create a new Python script file that you will name *yourname\_homework4.py*. Save this file in a folder on your computer where you will keep all your homework assignments. Write some Python code inside this file that I will be able to run on my computer without errors.

When finished, upload your file in Google Classroom using the Homework 4 assignment link. Don't forget to add comments at the beginning of each task and throughout your code for clarity.

TASKS

1. What does the following code print?

```
for x in range(2, 6):  
    print(x)
```

2. What does the following code print?

```
num = 4  
for i in range(0, num):  
    print(i)
```

3. What does the following code print? Does changing the value of x inside the loop affect the number of iterations?

```
x=10  
for i in range (0, x):  
    print(i)  
    x = 5  
print(x)
```

4. What does the following code print?

```
for x in range(2,30,3):  
    print(x)
```

5. What does the following code print?

```
for x in "jungle":  
    print(x)
```

- \*6. What does this program print?

```
x = 4  
for j in range (x):  
    for i in range (x):  
        print(i)  
        x = 2
```

7. Write a program that prints your name 100 times while also indicating which iteration it is. Example: The 98th line would be 'John(98)'
8. Write a program that finds an integer that is both divisible by 11 and 12 using a while or for loop.