

CS 101  
HOMEWORK 5: FOR AND WHILE LOOP EXERCISES

Create a new Python script file that you will name *yourname\_homework5.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 5 assignment link. Don't forget to add comments at the beginning of each task and throughout your code for clarity.

TASKS

1. What is the value of x?

```
x = 0
a = 5
b = 5
if a > 0:
    if b < 0:
        x = x + 5
    elif a > 5:
        x = x + 4
    else:
        x = x + 3
else:
    x = x + 2
print(x)
```

2. What is the output?

```
for num in range(-2, -5, -1):
    print(num, end=", ")
```

3. What is the output?

```
a, b = 12, 5
if a + b:
    print('True')
else:
    print('False')
```

4. What is printed out?

```
x = 0
for i in range(10):
    for j in range(-1, -10, -1):
        x += 1
print(x)
```

5. \* Write a program in which a user plays rock, paper, scissors with the computer. The rules are: rock beats scissors, scissors beats paper and paper beats rock. Assume the choice 1 is for rock, choice 2 is for scissors and choice 3 is for paper.