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Introduction to Computer Science and Programming Using Python

Help   josuecarames   ▼

Course > Week 1: Python Basics > 2. Core Elements of Programs (TIME: 54:14) > Exercise 5

Exercise 5
Exercise 5

5/5 points (graded)
ESTIMATED TIME TO COMPLETE: 7 minutes

Below are some short Python programs. For each program, answer the associated question.

Try to answer the questions without running the code. Check your answers, then run the code for the ones you get wrong.

This question is going to ask you what some simple loops print out. If you're asked what code like this prints:

```
num = 5
if num > 2:
    print(num)
    num -= 1
print(num)
```

write what it prints out, separating what appears on a new line by a comma and a space. So the answer for the above code would be:

```
5, 4
```

If a given loop will not terminate, write the phrase 'infinite loop' in the box.   ✏

Note: Using the 'range' built-in function

```
num = 10
for num in range(5):
    print(num)
print(num)
```

0, 1, 2, 3, 4, 4 ✔

```
divisor = 2
for num in range(0, 10, 2):
    print(num/divisor)
```

0.0, 1.0, 2.0, 3.0, 4.0 ✔

```
for variable in range(20):
    if variable % 4 == 0:
        print(variable)
    if variable % 16 == 0:
        print('Foo!')
```

0, Foo!, 4, 8, 12, 16, Foo! ✔

```
for letter in 'hola':
    print(letter)
```

h, o, l, a ✔

```
count = 0
for letter in 'Snow!':
    print('Letter # ' + str(count) + ' is ' + str(letter))
    count += 1
    break
print(count)
```
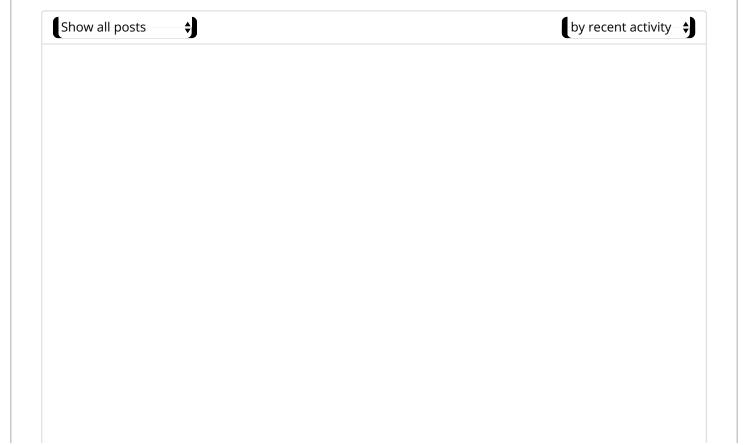
Letter # 0 is S, 1   ✔

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Exercise 5

Topic: Lecture 2 / Exercise 5

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?	**Ex5: why str(letter) is S? I still cannot understand the meaning of str(sth)?** I thought str(4)=='4' and str(food)=='food' ,but why str(letter) ==S ???	2
?	**String index out of range** I am trying to submit my answers but it keeps showing- **String index out of range**	2
💬	**Explain "break" in Q5.5** Hi guys, Can you please explain the meaning of "break" in Q5.5? In this question," for" loop i...	4
?	**Exercise 5.2** I can't figure out what is the sequence of steps of getting answer 0.0, 1.0, 2.0, 3.0, 4.0.If som...	7 new
?	**Question 5.3, Foo! (?)** Why do we get a Foo! between 0 and 4? Didn`t get this answer...	8
?	**exercise 5.5** I came up with the correct answer. I expressed my answer according to the print statement: ...	3
?	**question 5 is complety not clear** should not the output of exercise 5 be (S #count is letter, 1)? i dont anderstand the shown a...	2
💬	**These vs Grader** I definitely learn more from these types of questions, especially with having minimal coding ...	2
💬	**the answer of question 1** should not the answer of question 1be (10)? num will never be something but 10	9
💬	**Question 2 results, depends on Python version** This question is another one which depends on you are running python 2 or python 3 :(I bel...	2
💬	**How does #4 work?** Seems like there is some magic going behind the scenes... How does python know to iterate...	2
?	**Exercise 5.5** I got the answer Letter #, 0, is, Snow!, 1 But according to answers it should be 'S'. Isn't it str(l...	3
?	**Spoiler Questions 4/5** In question 4, why does "letter" correspond to the whole word "hola," but in question 5, str(l...	3