edX

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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

1.
```
num = 10
for num in range(5):
    print(num)
print(num)
```

0, 1, 2, 3, 4, 4 ✔

Answer: 0, 1, 2, 3, 4, 4

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

0.0, 1.0, 2.0, 3.0, 4.0 ✔

Answer: 0.0, 1.0, 2.0, 3.0, 4.0

3.
```
for variable in range(20):
    if variable % 4 == 0:
        print(variable)
    if variable % 16 == 0:
        print('Foo!')
```

0, Foo!, 4, 8, 12, 16, Foo! ✔

Answer: 0, 'Foo!', 4, 8, 12, 16, 'Foo!'

4.
```
for letter in 'hola':
    print(letter)
```

h, o, l, a ✔

Answer: 'h', 'o', 'l', 'a'

5.
```
count = 0
for letter in 'Snow!':
    print('Letter # ' + str(count) + ' is ' + str(letter))
    count += 1
    break
print(count)
```

Letter # 0 is S, 1   ✔
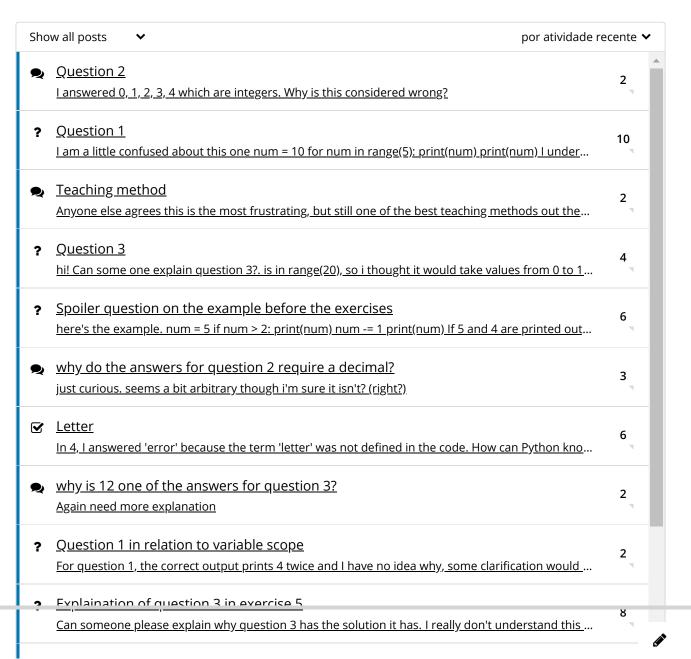
Answer: 'Letter # 0 is S', 1

Enviar

ℹ   Answers are displayed within the problem

Exercise 5

Topic: Lecture 2 / Exercise 5

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💬 **Question 2**   **2**
I answered 0, 1, 2, 3, 4 which are integers. Why is this considered wrong?

? **Question 1**   **10**
I am a little confused about this one num = 10 for num in range(5): print(num) print(num) I under...

💬 **Teaching method**   **2**
Anyone else agrees this is the most frustrating, but still one of the best teaching methods out the...

? **Question 3**   **4**
hi! Can some one explain question 3?. is in range(20), so i thought it would take values from 0 to 1...

? **Spoiler question on the example before the exercises**   **6**
here's the example. num = 5 if num > 2: print(num) num -= 1 print(num) If 5 and 4 are printed out...

💬 **why do the answers for question 2 require a decimal?**   **3**
just curious. seems a bit arbitrary though i'm sure it isn't? (right?)

☑ **Letter**   **6**
In 4, I answered 'error' because the term 'letter' was not defined in the code. How can Python kno...

💬 **why is 12 one of the answers for question 3?**   **2**
Again need more explanation

? **Question 1 in relation to variable scope**   **2**
For question 1, the correct output prints 4 twice and I have no idea why, some clarification would ...

? **Explaination of question 3 in exercise 5**   **8**
Can someone please explain why question 3 has the solution it has. I really don't understand this ...

🖊

? <u>Question 3</u>   7

<u>Can anyone explain how python follows up sequence in question 3 , shouldn't it give all values for</u>...

☑ <u>Q5</u>   2

<u>in line 3 why did you use str(letter) since letter is already a string</u>

? <u>Q2 decimal points</u>   3

<u>Why is the answer to Q2 0.0, 1.0, 2.0, 3.0, 4.0 and not 0, 1, 2, 3, 4?</u>