



< Previous



Next >

Exercise 1

🔖 Bookmark this page



Hide Notes

Exercise 1

14/14 points (graded)

ESTIMATED TIME TO COMPLETE: 10 minutes

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

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

```
1. iteration = 0
count = 0
while iteration < 5:
    # the variable 'letter' in the loop stands for every
    # character, including spaces and commas!
    for letter in "hello, world":
        count += 1
    print("Iteration " + str(iteration) + "; count is: " + str(count))
    iteration += 1
```

1. What is the value of the variable `count` that is printed out (at the `print` statement) on iteration 0?



2. What is the value of the variable `count` that is printed out (at the `print` statement) on iteration 1?



3. What is the value of the variable `count` that is printed out (at the `print` statement) on iteration 2?



4. What is the value of the variable `count` that is printed out (at the `print` statement) on iteration 3?



5. What is the value of the variable `count` that is printed out (at the `print` statement) on iteration 4?



```
2. iteration = 0
while iteration < 5:
    count = 0
    for letter in "hello, world":
        count += 1
    print("Iteration " + str(iteration) + "; count is: " + str(count))
    iteration += 1
```

1. What is the value of the variable `count` that is printed out (at the `print` statement) on iteration 0?



2. What is the value of the variable `count` that is printed out (at the `print` statement) on iteration 1?



3. What is the value of the variable `count` that is printed out (at the `print` statement) on iteration 2?

12



4. What is the value of the variable `count` that is printed out (at the `print` statement) on iteration 3?

12



5. What is the value of the variable `count` that is printed out (at the `print` statement) on iteration 4?

12



```
3. iteration = 0
while iteration < 5:
    count = 0
    for letter in "hello, world":
        count += 1
        if iteration % 2 == 0:
            break
    print("Iteration " + str(iteration) + "; count is: " + str(count))
    iteration += 1
```

1. How many times will the `print` statement be executed?

5



2. What is the largest value of the variable `iteration` that will be printed out (at the `print` statement)?

4



3. What is the largest value of the variable `count` that will be printed out (at the `print` statement)?

12



4. What is the smallest value of the variable `count` that will be printed out (at the `print` statement)?

1



Submit

Exercise 1

Hide Discussion

Topic: Lecture 3 / Exercise 1

Show all posts

by recent activity

? [code number 3](#)

4

[Good morning I run this code and the result was 1 12 1 12 1 but I do not understand how? Iterations 0,2,4, when divided by 2, will giv...](#)

? [*** SPOILER *** Question 1](#)

3

[for the first question: What is the value of the variable count that is printed out \(at the print statement\) on iteration 0? I inserted: **It...](#)

? [**SPOILER** How is the smallest value of count calculated in the last question](#)

Hide Notes



edX

- [About](#)
- [Affiliates](#)
- [edX for Business](#)
- [Open edX](#)
- [Careers](#)
- [News](#)

Legal

- [Terms of Service & Honor Code](#)
- [Privacy Policy](#)
- [Accessibility Policy](#)
- [Trademark Policy](#)
- [Sitemap](#)

Connect

- [Blog](#)
- [Contact Us](#)
- [Help Center](#)
- [Media Kit](#)

