edX

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Exercise 4
Exercise 4

4/4 points (graded)
ESTIMATED TIME TO COMPLETE: 6 minutes

Below is a transcript of a session with the Python shell. Provide the type and value of the expressions being evaluated. If evaluating an expression would cause an error, select NoneType and write 'error' in the box. If the result is a function, select function and write 'function' in the box.

To get the most out of this problem, try to figure out the answers by reading the code, not running it. Run the code in your interpreter only after you've checked your answers a few times.

Hint: If you are confused, you may find it helpful to draw out an environment diagram similar to what was presented in lecture.

1.
```
>>> a = 10
>>> def f(x):
        return x + a
>>> a = 3
>>> f(1)
```

[int ▼]   ✔ **Answer:** int

| 4 | ✔ **Answer:** 4 |

2.

```
>>> x = 12
>>> def g(x):
        x = x + 1
        def h(y):
            return x + y
        return h(6)
>>> g(x)
```

int ▾   ✔ **Answer:** int

| 19 | ✔ **Answer:** 19 |

Enviar

ℹ   Answers are displayed within the problem

Exercise 4

Topic: Lecture 4 / Exercise 4

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☑ **Question 2** I am curious what values of x and y the function h has. Is there any association with the x=12 and th…		1 new
? **To Be Clear On Defining X** So just to be clear, x can be defined anywhere outside of the function and called in? It doesn't have t…		2
💬 **Submit button greyed out** I cannot submit my answer as my submit button is greyed out. Any help/guidance on how to fix that?		4
? **When it is not possible to acceses to a global variables inside the scope of a function?** Is it always possible no matter what to access the global variable inside the scope of a function? Exa…		2
? General question regarding both problems In each piece of code, the function is defined in the last line. When I paste the code into python tutor…		2

☑   <u>Q2: Isn't x = x +1 modifying a variable defined outside the scope of g?</u>   2 new   **7**
<u>Much like this example in the lecture: def h(y): x = x + 1 x = 5 h(x) print(x)</u>

☑   <u>Question</u>   **4**
<u>Why is the first question 4, I thought it would be 11?</u>

☑   <u>Q2: Isn't x = x +1 modifying a variable defined outside the scope of g?</u>
<u>Much like this example in the lecture: def h(y): x = x + 1 x = 5 h(x) print(x)</u>

☑   <u>Question</u>
<u>Why is the first question 4, I thought it would be 11?</u>