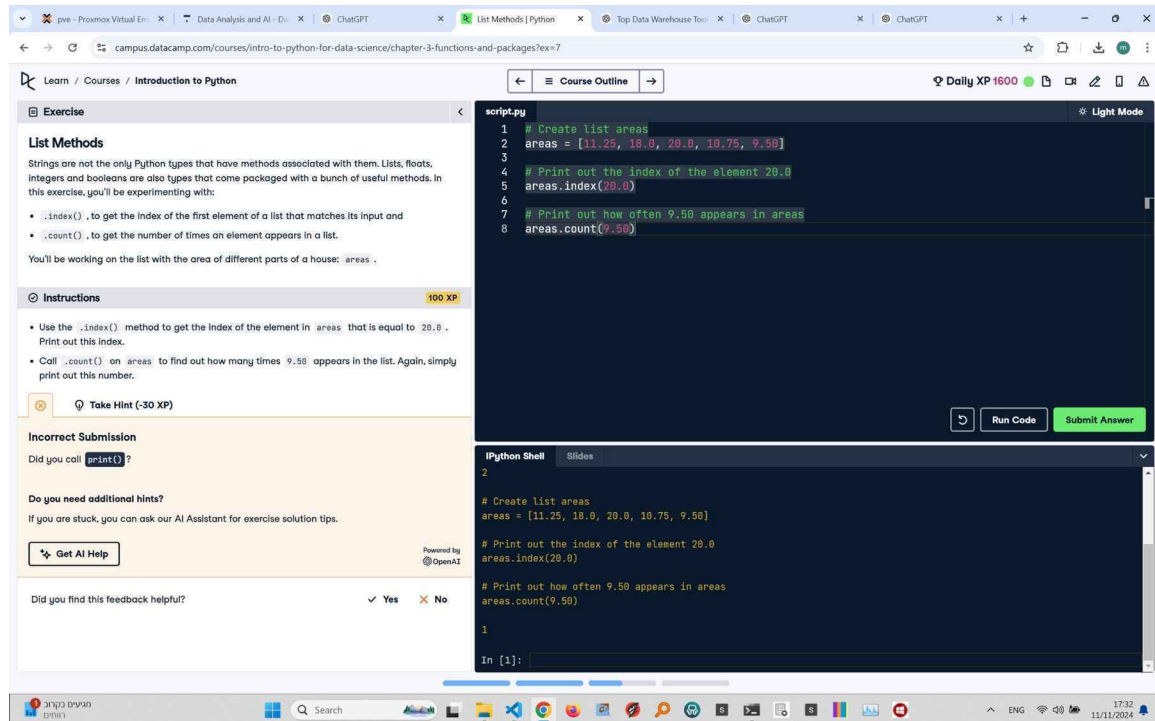


List Methods - Python Exercise

Below is the image provided along with the recreated question, terminal output, and answer:



The screenshot shows a web browser window displaying a DataCamp exercise page titled "List Methods". The page includes a description of the exercise, instructions, and a code editor. The code editor contains a Python script that creates a list named 'areas' and uses the .index() and .count() methods. The terminal output shows the execution of the script.

Exercise: List Methods

Strings are not the only Python types that have methods associated with them. Lists, floats, integers and booleans are also types that come packaged with a bunch of useful methods. In this exercise, you'll be experimenting with:

- `.index()`, to get the index of the first element of a list that matches its input
- `.count()`, to get the number of times an element appears in a list.

You'll be working on the list with the area of different parts of a house: `areas`.

Instructions (100 XP)

- Use the `.index()` method to get the index of the element in `areas` that is equal to `20.0`. Print out this index.
- Call `.count()` on `areas` to find out how many times `9.50` appears in the list. Again, simply print out this number.

Take Hint (-30 XP)

Incorrect Submission

Did you call `print()`?

Do you need additional hints?

If you are stuck, you can ask our AI Assistant for exercise solution tips.

[Get AI Help](#)

Did you find this feedback helpful? ☒ Yes ☐ No

script.py

```
1 # Create list areas
2 areas = ['hallway', 'kitchen', 'living room', '
3
4 # Print out the index of the element 20.0
5 areas.index(20.0)
6
7 # Print out how often 9.50 appears in areas
8 areas.count(9.50)
```

Python Shell

```
2
# Create list areas
areas = ['hallway', 'kitchen', 'living room',
# Print out the index of the element 20.0
areas.index(20.0)
# Print out how often 9.50 appears in areas
areas.count(9.50)
1
In [1]:
```

Recreated Question and Terminal

List Methods

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- `.index()`, to get the index of the first element of a list that matches its input
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You'll be working on the list with the area of different parts of a house: `areas`.

Instructions:

- Use the `.index()` method to get the index of the element in `areas` that is

equal to 20.0. Print out this index.

- Call `.count()` on `areas` to find out how many times 9.50 appears in the list. Again, simply print out this number.

Answer

```
# Create list areas
areas = [11.25, 18.0, 20.0, 10.75, 9.50]

# Print out the index of the element 20.0
print(areas.index(20.0))

# Print out how often 9.50 appears in areas
print(areas.count(9.50))
```

Explanation of the Answer

The `.index()` method finds the index of the first occurrence of 20.0 in the list `areas`, which is 2. The `.count()` method counts how many times 9.50 appears in the list, which is 1. The `print()` function is used to display both results.