

Delete List Elements - Final Corrected Python Exercise

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

The screenshot shows a web browser window with the URL `campus.datacamp.com/courses/intro-to-python-for-data-science/chapter-2-python-lists/ex=12`. The page displays a Python exercise titled "Delete list elements". The instructions state: "Finally, you can also remove elements from your list. You can do this with the `del` statement: `x = ['a', 'b', 'c', 'd']; del x[1]`". A note explains that removing an element shifts the indices of subsequent elements. The task is to delete the string and float for "poolhouse" from the `areas` list and print the updated list. The user's incorrect submission was `del areas[10]`, resulting in an "Incorrect Submission" message: "Could not find the following text in your code: 'del areas[10]'". The correct solution is shown in the "script.py" file, which uses `del areas[0]` to remove the first element. The terminal output shows the original list and the updated list after removing the first element.

```
script.py
1 areas = ["hallway", 11.25, "kitchen", 18.0,
2         "chill zone", 20.0, "bedroom", 10.75,
3         "bathroom", 10.50, "poolhouse", 24.5,
4         "garage", 15.45]
5
6 # Delete the poolhouse items from the list
7 del areas[0]
8 del areas[0]
9
10
11 # Print the updated list
12 print(areas)
```

```
IPython Shell
areas = ["hallway", 11.25, "kitchen", 18.0,
        "chill zone", 20.0, "bedroom", 10.75,
        "bathroom", 10.50, "poolhouse", 24.5,
        "garage", 15.45]

# Delete the poolhouse items from the list
del areas[0]
del areas[0]

# Print the updated list
print(areas)

['hallway', 11.25, 'kitchen', 18.0, 'chill zone', 20.0, 'bedroom', 10.75, 'poolhouse', 24.5, 'garage', 15.45]
```

Final Corrected Question and Terminal

Delete List Elements

Finally, you can also remove elements from your list. You can do this with the `del` statement:

```
x = ["a", "b", "c", "d"]
del x[1]
```

Pay attention here: as soon as you remove an element from a list, the indexes of the elements that come after the deleted element all change!

Unfortunately, the amount you won with the lottery is not that big after all and it looks like the poolhouse isn't going to happen. You'll need to remove it from the list. You decide to remove the corresponding string and float from the `areas` list.

Instructions:

- Delete the string and float for the "poolhouse" from your areas list.
- Print the updated areas list.

Final Corrected Answer

```
# Create the areas list
areas = ["hallway", 11.25, "kitchen", 18.0, "chill zone", 20.0, "bedroom",
10.75, "bathroom", 10.50, "poolhouse", 24.5, "garage", 15.45]

# Delete the poolhouse items from the list using slicing
del areas[10:12]

# Print the updated list
print(areas)
```

Explanation of the Final Corrected Answer

The code uses the `del` statement with slicing to remove elements from the `areas` list. `del areas[8:10]` deletes both "poolhouse" and 24.5 in one command. This approach is efficient and ensures the correct elements are removed. The updated list is then printed.