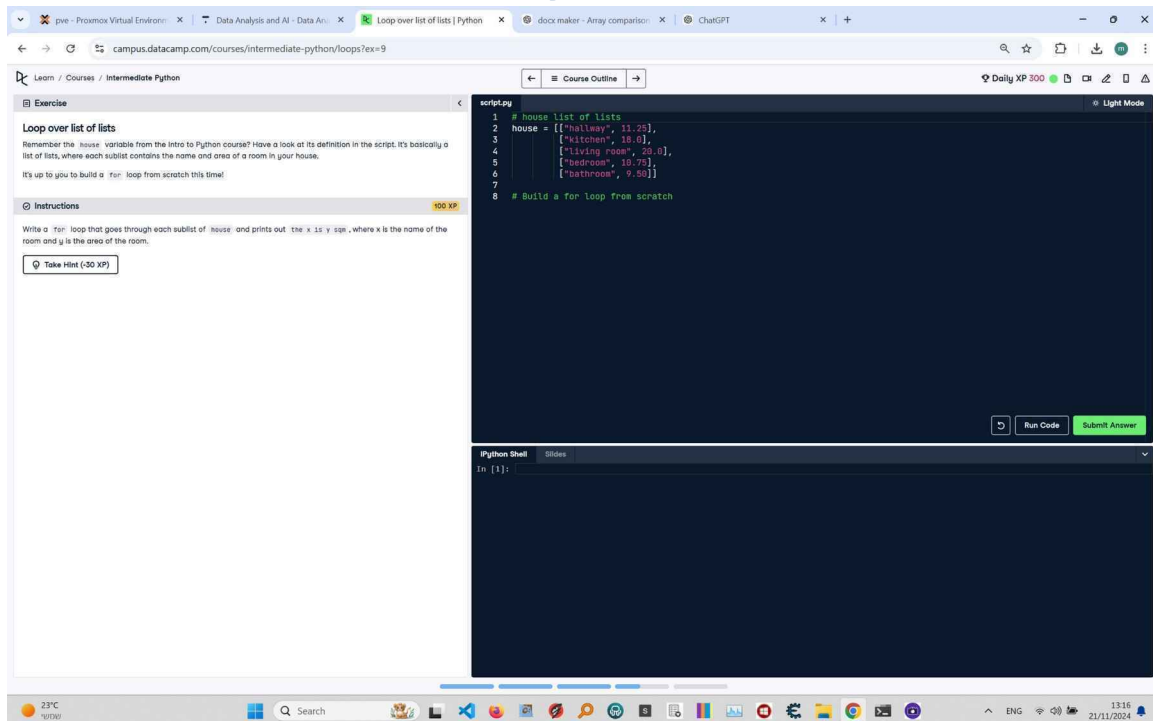


Loop Over List of Lists in Python



Question:

Remember the `house` variable from the Intro to Python course? Have a look at its definition in the script. It's basically a list of lists, where each sublist contains the name and area of a room in your house.

Instructions:

Write a `for` loop that goes through each sublist of `house` and prints out 'the x is y sqm', where `x` is the name of the room and `y` is the area of the room.

Answer:

Here is the Python code that solves the problem:

```
# house list of lists
house = [{"hallway", 11.25},
          {"kitchen", 18.0},
          {"living room", 20.0},
          {"bedroom", 10.75},
          {"bathroom", 9.50}]
```

```
# Build a for loop from scratch
for room in house:
    print(f"the {room[0]} is {room[1]} sqm")
```

****Explanation:****

1. ****Initialization****: The `house` list of lists is defined, where each sublist contains the name and area of a room.
2. ****For loop****: The `for` loop iterates over each sublist in the `house` list.
3. ****Accessing elements****: Within the loop, `room[0]` accesses the name of the room, and `room[1]` accesses the area of the room.
4. ****Print statement****: The `print()` function uses an f-string to format the output as `the x is y sqm`, where `x` is the room name and `y` is the area.
5. ****Execution****: The loop runs once for each sublist in the `house` list, printing the formatted string for each room.