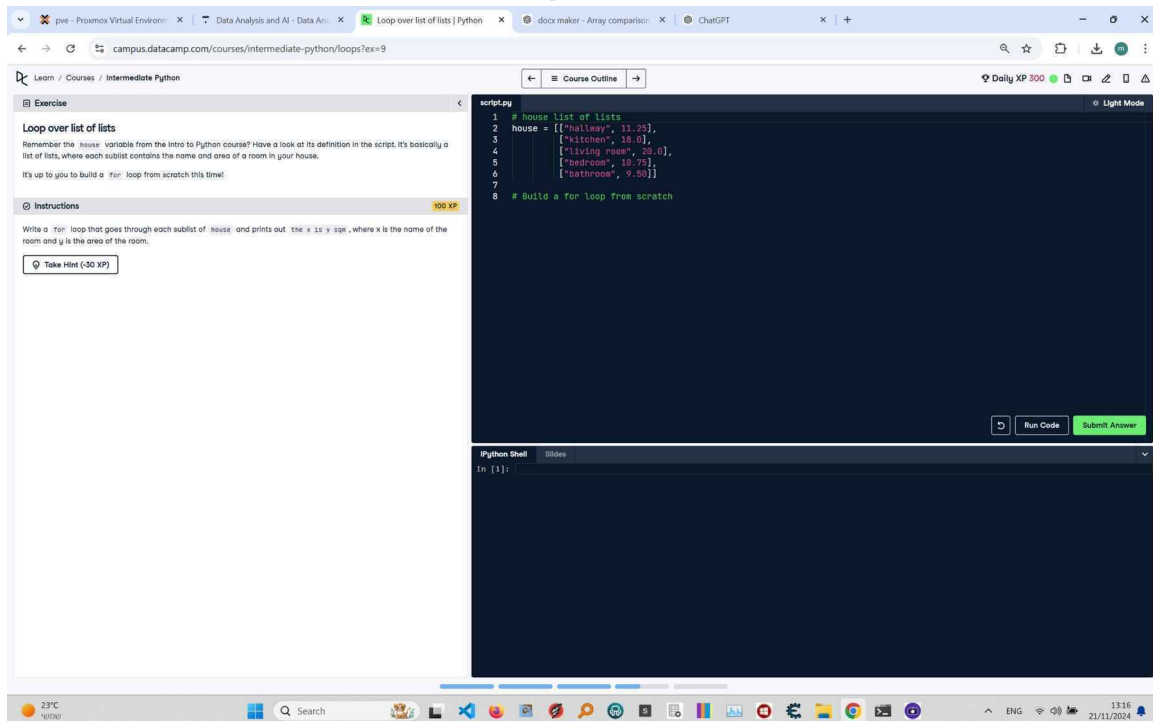


# Loop Over List of Lists in Python



**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 `'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.