

Assignment -2

Python Programming

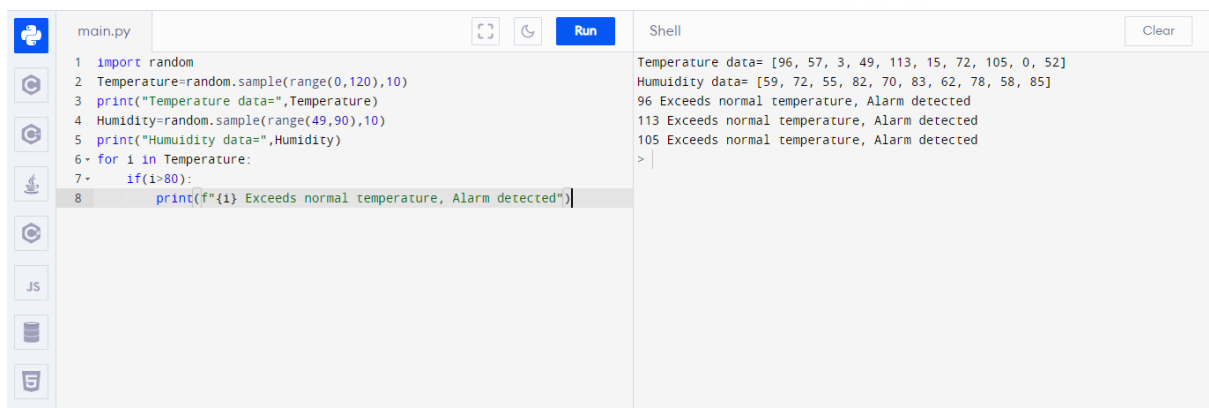
Assignment Date	28 September 2022
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Question-1:

Build a python code. Assume get temperature (generated with random continuously detect alarm and humidity values function to variable) and write a condition to in case of high temperature.

Solution:

```
import random
Temperature=random.sample(range(0,120),10)
print("Temperature data=",Temperature)
Humidity=random.sample(range(49,90),10)
print("Humuidity data=",Humidity)
for i in Temperature:
    if(i>80):
        print(f"{i} Exceeds normal temperature,
Alarm detected")
```



The screenshot shows a Python IDE with a file named 'main.py'. The code in the editor is as follows:

```
1 import random
2 Temperature=random.sample(range(0,120),10)
3 print("Temperature data=",Temperature)
4 Humidity=random.sample(range(49,90),10)
5 print("Humuidity data=",Humidity)
6 for i in Temperature:
7     if(i>80):
8         print(f"{i} Exceeds normal temperature, Alarm detected")
```

The 'Run' button is highlighted. The 'Shell' output on the right shows the following results:

```
Temperature data= [96, 57, 3, 49, 113, 15, 72, 105, 0, 52]
Humuidity data= [59, 72, 55, 82, 70, 83, 62, 78, 58, 85]
96 Exceeds normal temperature, Alarm detected
113 Exceeds normal temperature, Alarm detected
105 Exceeds normal temperature, Alarm detected
>
```