

IBM ASSIGNMENT 2

VIMALAN S S

QUESTION:

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

CODE:

```
import random
import time
while True:
    t = random.randrange(-100, 200)
    if (t >= 100):
        hum = random.randrange(50, 100)
    else:
        hum = random.randrange(0, 49)
    if (t <= 100 and hum < 50):
        print(t, hum, " is the temperature and humidity", end=", ")
        print("Alarm Deactivated ")
    else:
        print(t, hum, " is the temperature and humidity", end=", ")
        print("Alarm Activated")
```

ibm_2.py - C:/Users/VIBIN T/AppData/Local/Programs/Python/Python310/ibm_2.py (3.10.7)

File Edit Format Run Options Window Help

```
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    else:
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        print("Alarm Activated")
    time.sleep(3)
```

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39 items

E Shell 3.10.7 - C:/Users/VIBIN T/AppData/Local/Programs/Python/Python310/ASS2.txt (3.10...

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    time.sleep(3)
[DEBUG ON]
[DEBUG OFF]
```

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===== RESTART: C:/Users/VIBIN T/AppData/Local

ograms/Python/Python310/ibm_2.py =====

5 38 is the temperature and humidity, Alarm Deactivated

2 14 is the temperature and humidity, Alarm Deactivated

===== RESTART: C:/Users/VIBIN T/AppData/Local

ograms/Python/Python310/ibm_2.py =====

6 29 is the temperature and humidity, Alarm Deactivated

23 is the temperature and humidity, Alarm Deactivated

6 9 is the temperature and humidity, Alarm Deactivated

23 is the temperature and humidity, Alarm Deactivated

9 is the temperature and humidity, Alarm Deactivated

8 97 is the temperature and humidity, Alarm Activated

4 75 is the temperature and humidity, Alarm Activated

6 60 is the temperature and humidity, Alarm Activated

3 22 is the temperature and humidity, Alarm Deactivated

47 is the temperature and humidity, Alarm Deactivated

39 is the temperature and humidity, Alarm Deactivated

3 87 is the temperature and humidity, Alarm Activated