

IBM ASSIGNMENT 2

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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
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")
    time.sleep(3)

E Shell 3.10.7 - C:/Users/VIBIN T/AppData/Local/Programs/Python/Python310/ASS2.txt (3.10.7)
File Edit Shell Debug Options Window Help
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")
    time.sleep(3)
[DEBUG ON]
[DEBUG OFF]

===== 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

Ln: 18 Col: 0
Ln: 21
39 items
```