

IBMASSIGNMENT–2

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ASSIGNMENTQUESTION:

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

PYTHONCODE:

```
import random
from time import sleep

while True:
    temperature=round(random.uniform(10, 50),2)
    humidity=round(random.uniform(10, 100),2)
    print("\nTemperature =", temperature,"degreecelsius")
    print("Humidity = ",humidity,"% ")
    if(temperature>32):
        print("STATE : ALARM ON")
    else:
        print("STATE : ALARM OFF")
    sleep(5)
```


EXECUTIONRESULT

Output

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





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main.py



1 import random

2 from time import sleep

3

4 while True:

5 temperature=round(random.uniform(10, 50),2)

6 humidity=round(random.uniform(10, 100),2)

7 print("\nTemperature =", temperature,"degree celsius")

8 print("Humidity = ",humidity,"%")

9 if(temperature>32):

10 print("STATE : ALARM ON")

11 else:

12 print("STATE : ALARM OFF")

13 sleep(5)


Run

Clear

Shell

3Temperature = 35.36 degree celsius
Humidity = 16.02 %
STATE : ALARM ON
Temperature = 20.38 degree celsius
Humidity = 18.08 %
STATE : ALARM OFF
Temperature = 40.13 degree celsius
Humidity = 23.37 %
STATE : ALARM ON
Temperature = 34.18 degree celsius
Humidity = 27.09 %
STATE : ALARM ON
21Temperature = 20.49 degree celsius
Humidity = 15.44 %
STATE : ALARM OFF
Temperature = 45.9 degree celsius
Humidity = 78.05 %
STATE : ALARM ON
Temperature = 28.68 degree celsius
Humidity = 58.49 %
STATE : ALARM OFF
Temperature = 43.48 degree celsius

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