

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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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)

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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