

IBM

ASSIGNMENT – 2

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ASSIGNMENT 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.









PYTHON CODE:

```
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,"degree celsius")
    print("Humidity  = ",humidity,"%")
    if(temperature>32):
        print("STATE : ALARM ON")
    else:
        print("STATE : ALARM OFF")
    sleep(5)
```

EXECUTION RESULT

Output



main.py



Run

Shell

Clear

```
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)
```

```
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
```

