

## **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
















JS





```
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

Clear

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

