IoT Assignment 2

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Build python code, Generate Temperature and Humidity values (use Random function to generate values) and write a condition to detect an alarm in case of high temperature and high humidity.

CODE: Main.py

```python
import

random

TEMP_THRESHOLD=85#degrees Celcius

HUMIDITY_THRESHOLD=45#percent

temperature=random.uniform(0,100)

print("Temperature:",temperature)

humidity=random.uniform(0,100)

print("Humidity:",humidity) if

temperature>TEMP_THRESHOLD:

    print("High temperature alarm!")

if humidity>HUMIDITY_THRESHOLD:

    print("High Humidity alarm!")
```

OUTPUT:

Temperature: 96.30562151393542

Humidity: 20.76406982515129

High temperature alarm!

PROGRAM: **OUTPUT:**

```
main.py                                    Run        Shell

1                                                     Tempimport random 85.29834176235589
2                                                     Humidity: 4.177503063925503
3   import random                                     High temperature alarm!
4   TEMP_THRESHOLD = 85                               >
5   HUMIDITY_THRESHOLD = 45
6   temperature = random.uniform(0, 100)
7   print ("Tempimport random",temperature)
8   humidity = random.uniform(0,100)
9   print ("Humidity:", humidity)
10  if temperature > TEMP_THRESHOLD:
11    print ("High temperature alarm!")
12  if humidity > HUMIDITY_THRESHOLD:
13    print ("High humidity alarm!")
```