

## IOT ASSIGNMENT 2

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GROUP NO:1(INTERNET of THINGS)

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 :

```
Import random  
TEMP_THRESHOLD=85#degrees celsius  
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: 87.14192548932219

Humidity: 81.34747639325025

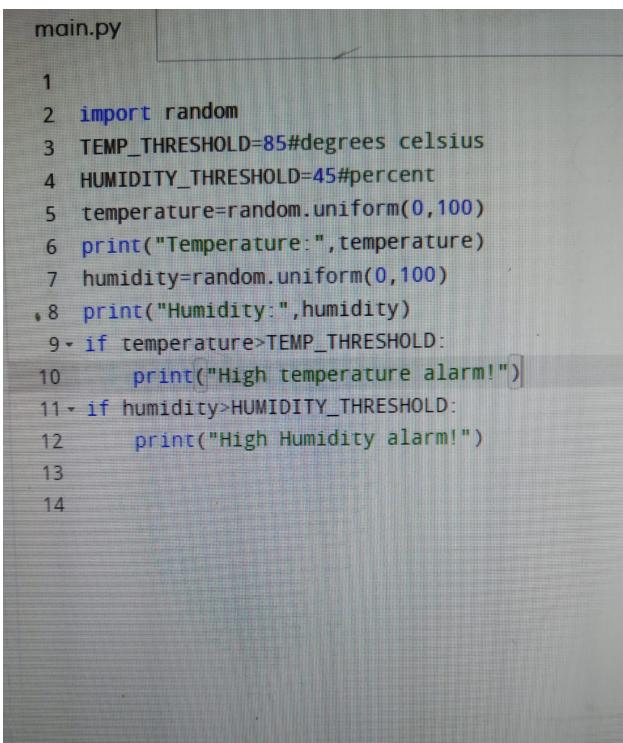
High temperature alarm!

High Humidity alarm!



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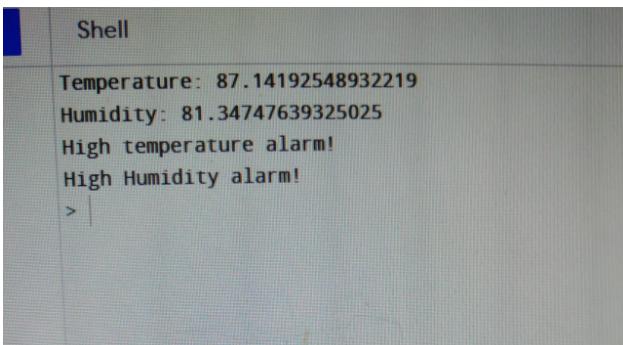
## PROGRAM :



```
main.py

1
2 import random
3 TEMP_THRESHOLD=85#degrees celsius
4 HUMIDITY_THRESHOLD=45#percent
5 temperature=random.uniform(0,100)
6 print("Temperature:",temperature)
7 humidity=random.uniform(0,100)
8 print("Humidity:",humidity)
9 if temperature>TEMP_THRESHOLD:
10     print("High temperature alarm!")
11 if humidity>HUMIDITY_THRESHOLD:
12     print("High Humidity alarm!")
13
14
```

## OUTPUT :



```
Shell

Temperature: 87.14192548932219
Humidity: 81.34747639325025
High temperature alarm!
High Humidity alarm!
>
```



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