

# IoT Assignment 2

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GROUP NO:5(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:

Main.py

```
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:

```
assignment2.py - C:\Users\ELCOT\AppData\Local\Programs\Python\Python37\assignment2....
File Edit Format Run Options Window Help

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:

```
Python 3.7.0a2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0a2 (v3.7.0a2:f7ac4fe, Oct 17 2017, 17:06:29) [MSC v.1900 64 bit (AMD
64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:\Users\ELCOT\AppData\Local\Programs\Python\Python37\assignment2.py
Temperature: 96.30562151393542
Humidity: 20.76406982515129
High temperature alarm!
>>> |
```