

# 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

```
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:

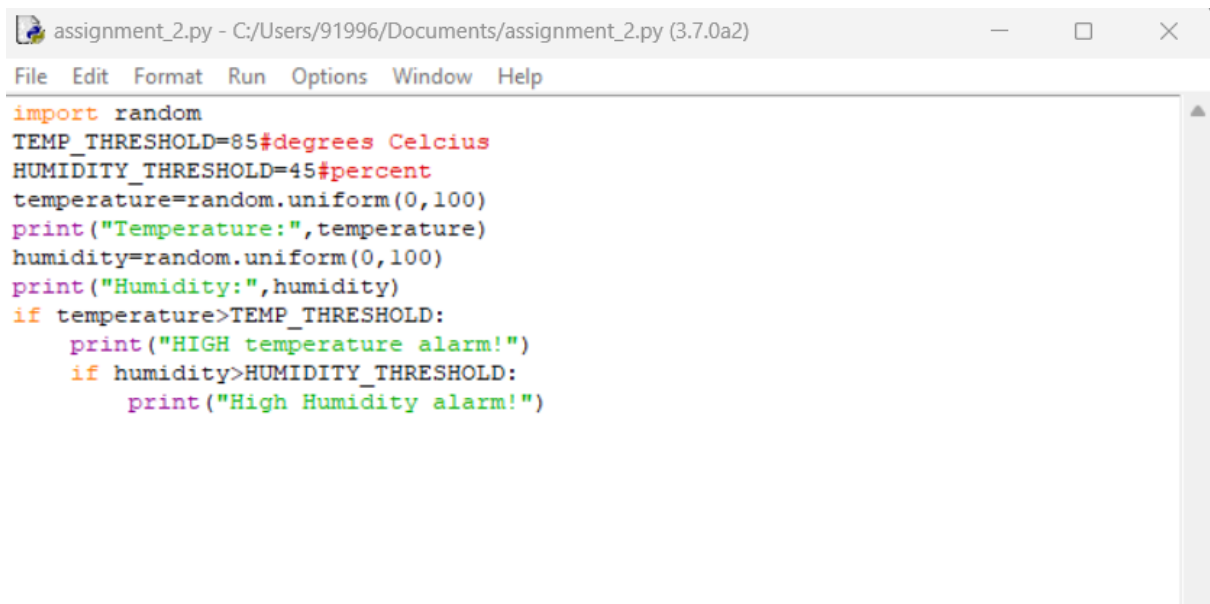
Temperature: 99.2699446574016

Humidity: 54.60301896651205

HIGH temperature alarm!

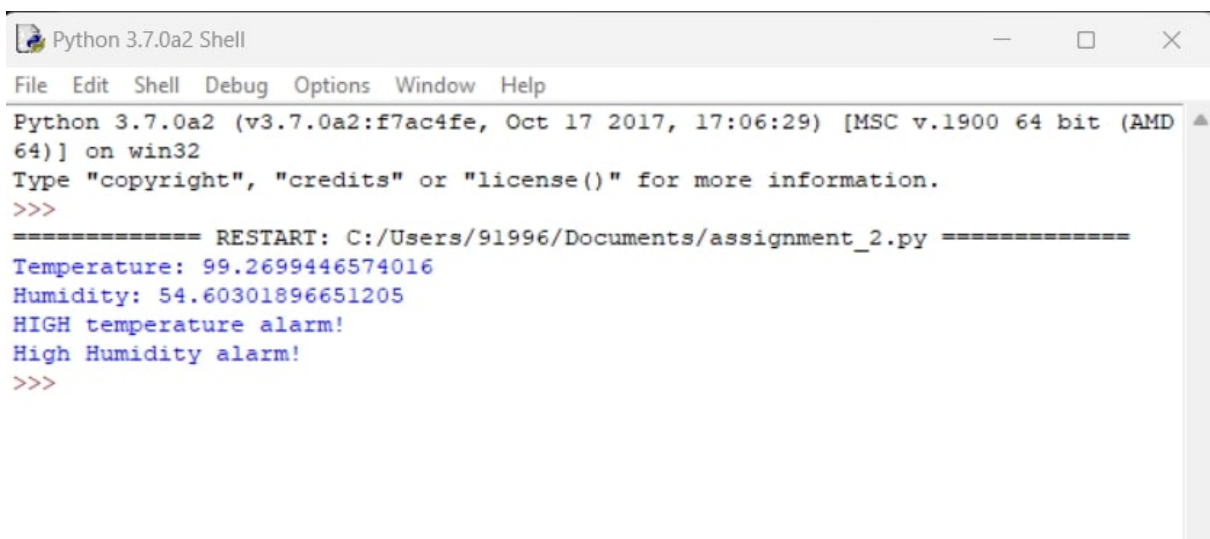
High humidity alarm!

## PROGRAM:



```
assignment_2.py - C:/Users/91996/Documents/assignment_2.py (3.7.0a2)
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/91996/Documents/assignment_2.py =====
Temperature: 99.2699446574016
Humidity: 54.60301896651205
HIGH temperature alarm!
High Humidity alarm!
>>>
```