

Assingment-2

Date	22September2022
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ProjectName	Industry-SpecificIntelligentFireManagementSystem

Python programming

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.

```
import random
from time import sleep

def generate_values():
    temperature = random.randint(20, 50)
    humidity = random.randint(10, 100)
    return humidity, temperature

humidity, temperature = generate_values()
while temperature < 50:
    print('Humidity:', humidity, 'Temperature:', temperature)
    sleep(0.50)
    humidity, temperature = generate_values()
print('High Temperature Detected')
```

OUTPUT:

```
Humidity:23 Temperature:49
Humidity:27 Temperature:42
Humidity:18 Temperature:28
Humidity:20 Temperature:22
Humidity:36 Temperature:36
Humidity:29 Temperature:47
Humidity:22 Temperature:34
Humidity:27 Temperature:29
Humidity:15 Temperature:30
Humidity:19 Temperature:47
```

Humidity:29Temperature:39

Humidity:21Temperature:22

Humidity:18Temperature:30

Humidity:18Temperature:20

Humidity:24Temperature:29

Humidity:26Temperature:27

Humidity:19Temperature:33

Humidity:16Temperature:23

Humidity:21Temperature:48

Humidity:21Temperature:21

Humidity:34Temperature:43

Humidity:25Temperature:42

Humidity:26Temperature:27

Humidity:20Temperature:25

Humidity:11Temperature:47

Humidity:28Temperature:50

HighTemperatureDetected

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:/Downloads/IBM/Arul assignment 2.py =====
Humidity: 23 Temperature: 49
Humidity: 27 Temperature: 42
Humidity: 18 Temperature: 28
Humidity: 20 Temperature: 22
Humidity: 36 Temperature: 36
Humidity: 29 Temperature: 47
Humidity: 22 Temperature: 34
Humidity: 27 Temperature: 29
Humidity: 15 Temperature: 30
Humidity: 19 Temperature: 47
Humidity: 29 Temperature: 39
Humidity: 21 Temperature: 22
Humidity: 18 Temperature: 30
Humidity: 18 Temperature: 20
Humidity: 24 Temperature: 29
Humidity: 26 Temperature: 27
Humidity: 19 Temperature: 33
Humidity: 16 Temperature: 23
Humidity: 21 Temperature: 48
Humidity: 21 Temperature: 21
Humidity: 34 Temperature: 43
Humidity: 25 Temperature: 42
Humidity: 26 Temperature: 27
Humidity: 20 Temperature: 25
Humidity: 11 Temperature: 47
Humidity: 28 Temperature: 50
High Temperature Detected
>>>
```

Ln: 26 Col: 28