

**Assignment -2**  
Python Programming

Assignment Date	19 September 2022
Student Name	Mr. Arul.B
Student Roll Number	812419106006
Maximum Marks	2 Marks

**Question-1:**

Build a python code, Assume u 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, temperature)
    return humidity, temperature
humidity = temperature = 0
while temperature < 50:
    humidity, temperature = generate_values()
    print('Humidity:', humidity, 'Temperature:', temperature)
    sleep(0.50)
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: 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**



```
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/IBN/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