

**Assignment-
2
Python
Programming**

Assignment Date	19 September 2022
Student Name	Mr.Vignesh V
Student Roll Number	611219106085
Maximum Marks	2 Marks

Question-1:

Build a python code, Assume u get temperature and humidity values (generated with randomfunction to a variable) and write a condition to continuously detect alarm in case of hightemperature.

Program:

```
import random
from time import sleep

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

humidity, temperature = generate_values()

while temperature < 45:
    humidity, temperature = generate_values()
    print('Humidity:', humidity, 'Temperature:', temperature)
    sleep(0.50)

print('High Temperature Detected')
```

OUTPUT:

```
Humidity:16 Temperature:22
Humidity:11 Temperature:30
Humidity:10 Temperature:13
Humidity:22 Temperature:44
Humidity:17 Temperature:24
Humidity:14 Temperature:35
Humidity:17 Temperature:22
Humidity:30 Temperature:42
Humidity: 21 Temperature:
45 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/IBM/Assignment 2/FY.py =====
Humidity: 16 Temperature: 22
Humidity: 11 Temperature: 30
Humidity: 10 Temperature: 13
Humidity: 22 Temperature: 44
Humidity: 17 Temperature: 24
Humidity: 14 Temperature: 35
Humidity: 17 Temperature: 22
Humidity: 30 Temperature: 42
Humidity: 21 Temperature: 45
High Temperature Detected
>>>
```

Ln: 15 Col: 4