

Assignment -1
Python Programming

Assignment Date	19 September 2022
Student Name	Mr.M.Bala Murugan
Student Roll Number	812419106011
Maximum Marks	2 Marks

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(18, 50)
    humidity = random.randint(10, temperature)
    return humidity, temperature
humidity = temperature = 0
while temperature < 45:
    humidity, temperature = generate_values()
    print('Humidity:', humidity, 'Temperature:', temperature)
    sleep(0.50)
print('High Temperature Detected')
```

OUTPUT:

```
Humidity: 13 Temperature: 21
Humidity: 11 Temperature: 19
Humidity: 17 Temperature: 43
Humidity: 16 Temperature: 43
Humidity: 18 Temperature: 18
Humidity: 10 Temperature: 41
Humidity: 23 Temperature: 46
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: C:/Users/absar/AppData/Local/Programs/Python/Python37/Bala Murugan Assignment 2.py
Humidity: 13 Temperature: 21
Humidity: 11 Temperature: 19
Humidity: 17 Temperature: 43
Humidity: 16 Temperature: 43
Humidity: 18 Temperature: 18
Humidity: 10 Temperature: 41
Humidity: 23 Temperature: 46
High Temperature Detected
>>>
```

Ln 13 Col 4

15:47 29-09-2022