

## Assignment -2

### Python Programming

Assignment Date	25 September 2022
Student Name	Ms.K.Sowmiya
Student Roll Number	923819106051
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.

### Solution:

```
import random
import time
while True:
    Temperature = random.randint(0,150)
    Humidity = random.randint(0,100)

    if Temperature > 100 and Humidity > 80:
        print("Temperature : " + str(Temperature))
        print("Humidity : " + str(Humidity))
        print("Temperature and Humidity is High")
    print("Alarm On !!!")
    print("")
    time.sleep(2)
    else:
        print("Temperature : " + str(Temperature))
        print("Humidity : " + str(Humidity))
        print("Range is Normal")
    print("")
```

Command Prompt - python assignment2.py

```
Range is Normal
Temperature : 128
Humidity : 19
Range is Normal
Temperature : 23
Humidity : 32
Range is Normal
Temperature : 145
Humidity : 46
Range is Normal
Temperature : 60
Humidity : 71
Range is Normal
Temperature : 41
Humidity : 91
Range is Normal
Temperature : 58
Humidity : 87
Range is Normal
Temperature : 4
Humidity : 28
Range is Normal
Temperature : 105
Humidity : 13
Range is Normal
Temperature : 0
Humidity : 42
Range is Normal
Temperature : 146
Humidity : 04
Temperature and Humidity is High
Alarm On !!!
```