

Assignment -2

Python Programming

Assignment Date	24 September 2022
Student Name	Abarna A
Student Roll Number	621119106001
Maximum Marks	10 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
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 : 94
Temperature and Humidity is High
Alarm On !!!
```

```
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(" ")
```