

Assignment -2

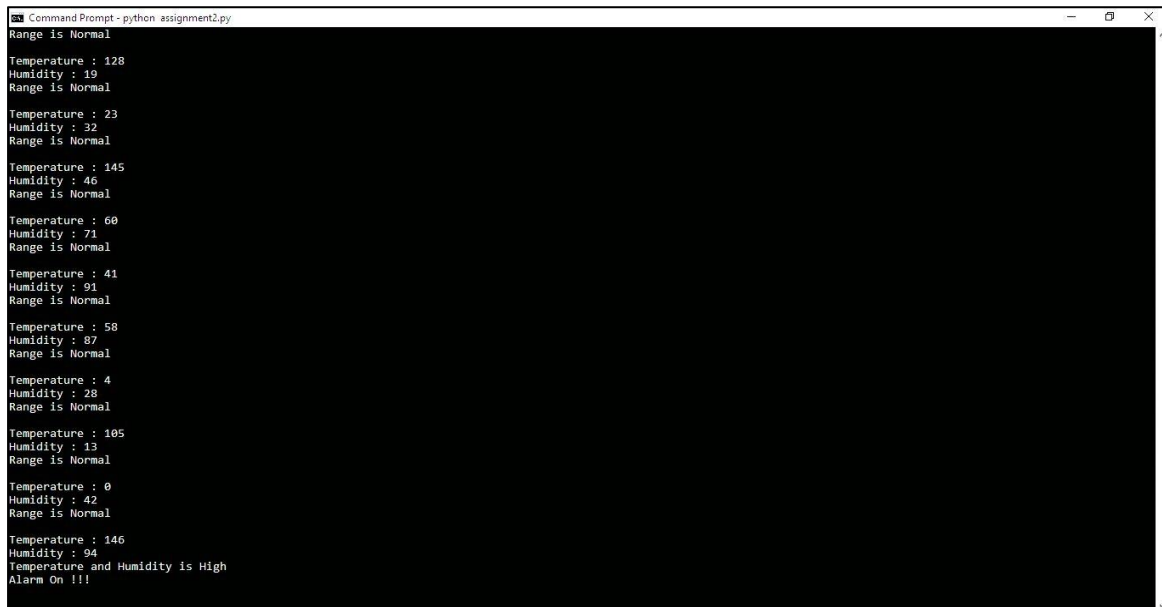
Python Programming

Assignment Date	24 September 2022
Student Name	Ms. Priyadharshini.S
Student Roll Number	923819104035
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:



```
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 : 94
Temperature and Humidity is High
Alarm On !!!
```

```
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(" ")
```