

Assignment -2
Python Programming

Assignment Date	24 September 2022
Student Name	Jayanth S
Student Roll Number	49621912010
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:

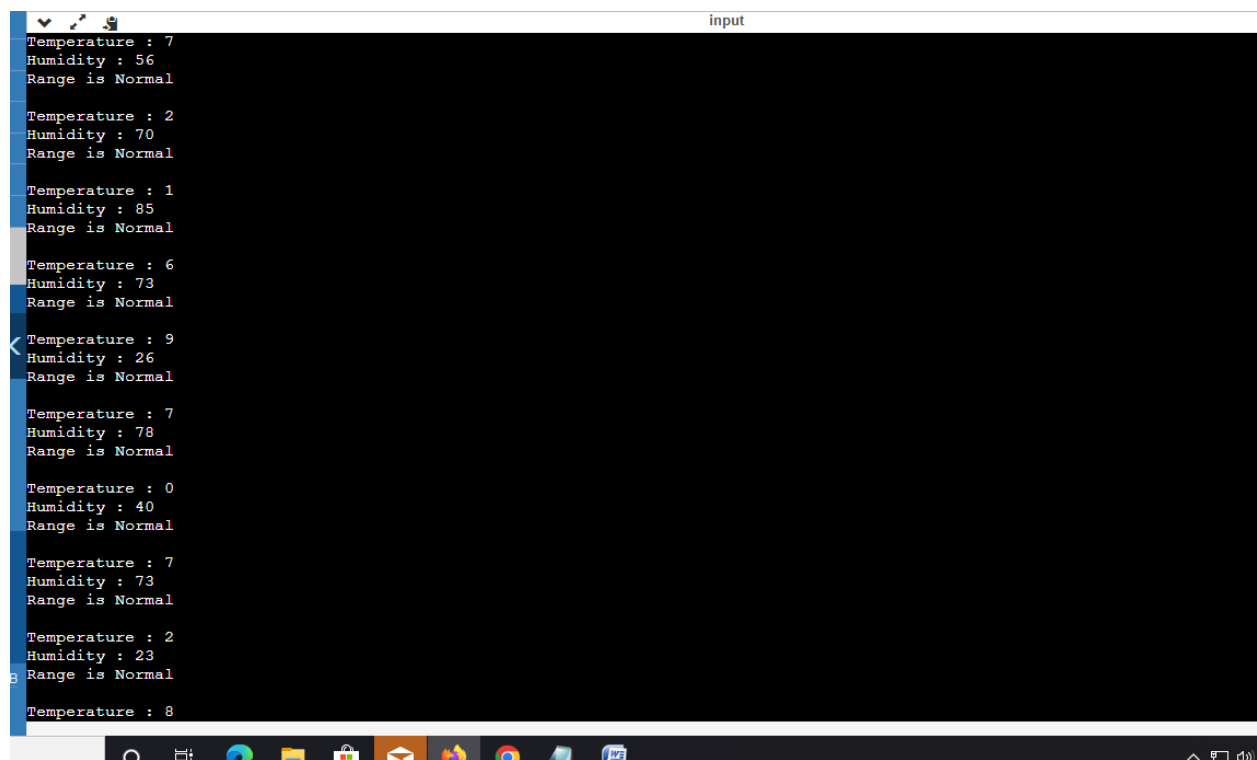
```
import random
import time
while True:
    Temperature = random.randint(0,150)
    Humidity = random.randint(0,100)
    if Temperature > 100 and Humidity > 80:
        print("Temperature : " + str(Temperature))
        print("Humidity : " + str(Humidity))
        print("Temperature and Humidity is High")
        print("Alarm On !!!")
        print("")
        time.sleep(2)
    else:
        print("Temperature : " + str(Temperature))
```

```
print("Humidity : " + str(Humidity))
```

```
print("Range is Normal")
```

```
print("")
```

Output:



```
input
Temperature : 7
Humidity : 56
Range is Normal

Temperature : 2
Humidity : 70
Range is Normal

Temperature : 1
Humidity : 85
Range is Normal

Temperature : 6
Humidity : 73
Range is Normal

Temperature : 9
Humidity : 26
Range is Normal

Temperature : 7
Humidity : 78
Range is Normal

Temperature : 0
Humidity : 40
Range is Normal

Temperature : 7
Humidity : 73
Range is Normal

Temperature : 2
Humidity : 23
Range is Normal

Temperature : 8
```