

ASSIGNMENT – 2

PYTHON PROGRAMMING

Assignment Date	22 September 2022
Student Name	Ajay A
Student Roll Number	212219040006
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.

Code:

```
import random
import numpy
i=1
while i>0:
    temp=random.randint(0,100)
    humid=random.randint(1,100)
    print("Temperature : ",temp)
    if temp>21 and temp<50 :
        print("Temperature is normal")
    elif temp<21:
        print("Temperature is low")
    else:
        print("Warning! Temperature is high")
```

```
print("Humidity: ",humid)

if humid>31 and humid<60 :

    print("Humidity is normal")

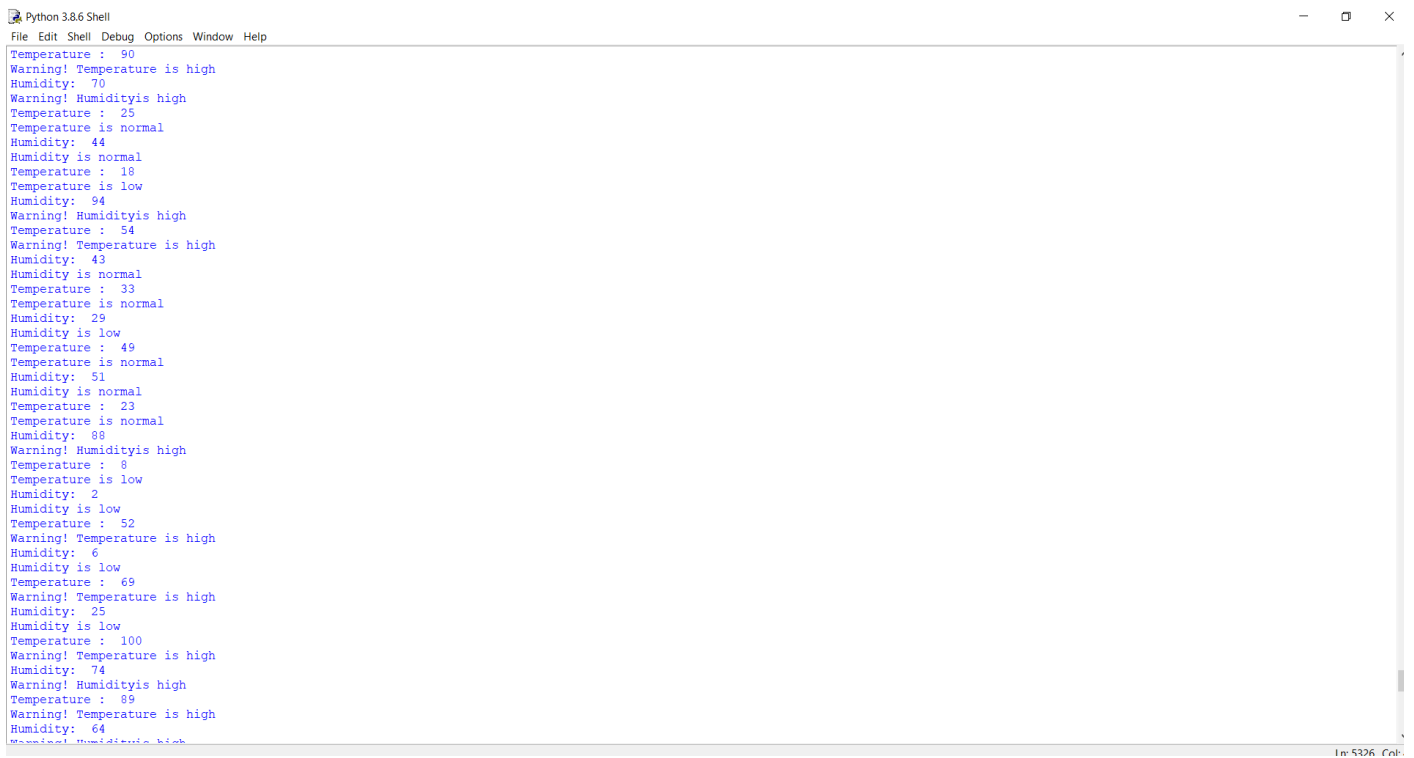
elif humid<31:

    print("Humidity is low")

else:

    print("Warning! Humidityis high")
```

Screenshot:



```
Python 3.8.6 Shell
File Edit Shell Debug Options Window Help
Temperature : 90
Warning! Temperature is high
Humidity: 70
Warning! Humidityis high
Temperature : 25
Temperature is normal
Humidity: 44
Humidity is normal
Temperature : 18
Temperature is low
Humidity: 94
Warning! Humidityis high
Temperature : 54
Warning! Temperature is high
Humidity: 43
Humidity is normal
Temperature : 33
Temperature is normal
Humidity: 29
Humidity is low
Temperature : 49
Temperature is normal
Humidity: 51
Humidity is normal
Temperature : 23
Temperature is normal
Humidity: 89
Warning! Humidityis high
Temperature : 8
Temperature is low
Humidity: 2
Humidity is low
Temperature : 52
Warning! Temperature is high
Humidity: 6
Humidity is low
Temperature : 69
Warning! Temperature is high
Humidity: 25
Humidity is low
Temperature : 100
Warning! Temperature is high
Humidity: 74
Warning! Humidityis high
Temperature : 89
Warning! Temperature is high
Humidity: 64
Warning! Humidityis high
```