

**Assignment -2**  
Python Programming

Assignment Date	19 September 2022
Student Name	Mugila R
Student Roll Number	621119106017
Maximum Marks	2 Marks

**Question:**

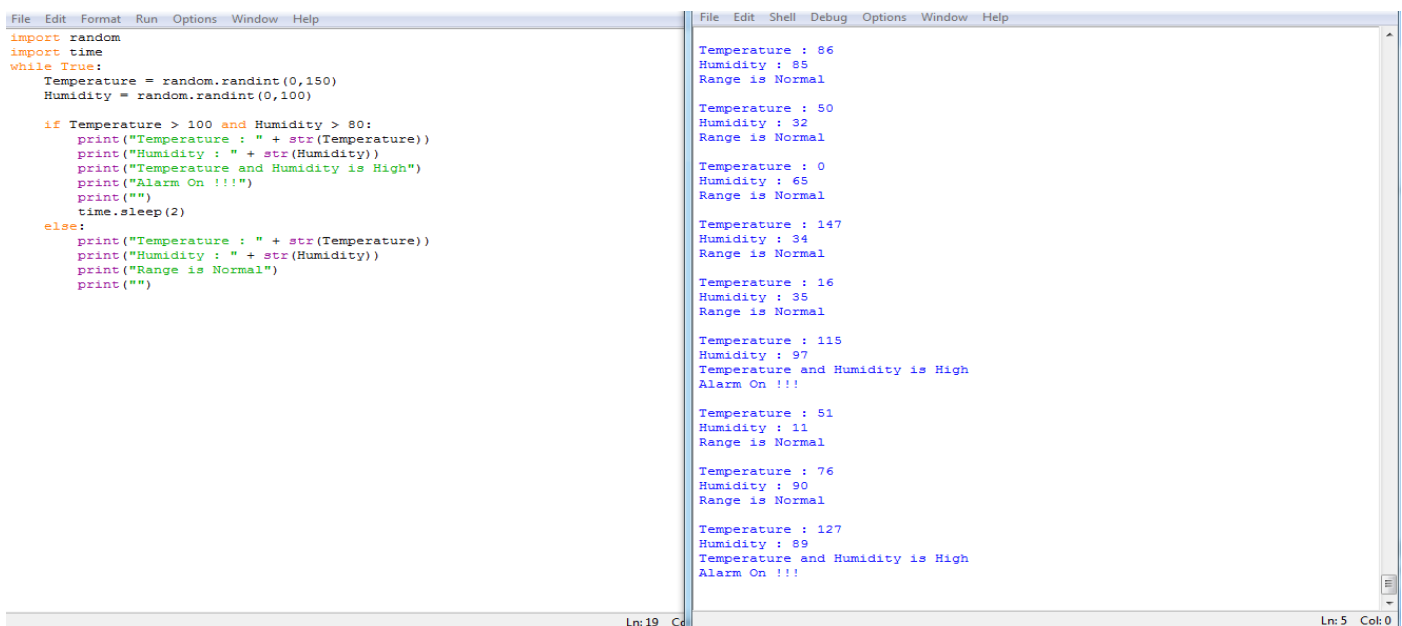
Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

**Solution:**

**PROGRAM:**

```
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:**



```
File Edit Format Run Options Window Help
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("")

Temperature : 86
Humidity : 85
Range is Normal

Temperature : 50
Humidity : 32
Range is Normal

Temperature : 0
Humidity : 65
Range is Normal

Temperature : 147
Humidity : 34
Range is Normal

Temperature : 16
Humidity : 35
Range is Normal

Temperature : 115
Humidity : 97
Temperature and Humidity is High
Alarm On !!!

Temperature : 51
Humidity : 11
Range is Normal

Temperature : 76
Humidity : 90
Range is Normal

Temperature : 127
Humidity : 89
Temperature and Humidity is High
Alarm On !!!

Ln: 19 Col: 0
```