

**Assignment -2**  
Python Programming

Assignment Date	24 September 2022
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Maximum Marks	10 Marks

**Question-1:**

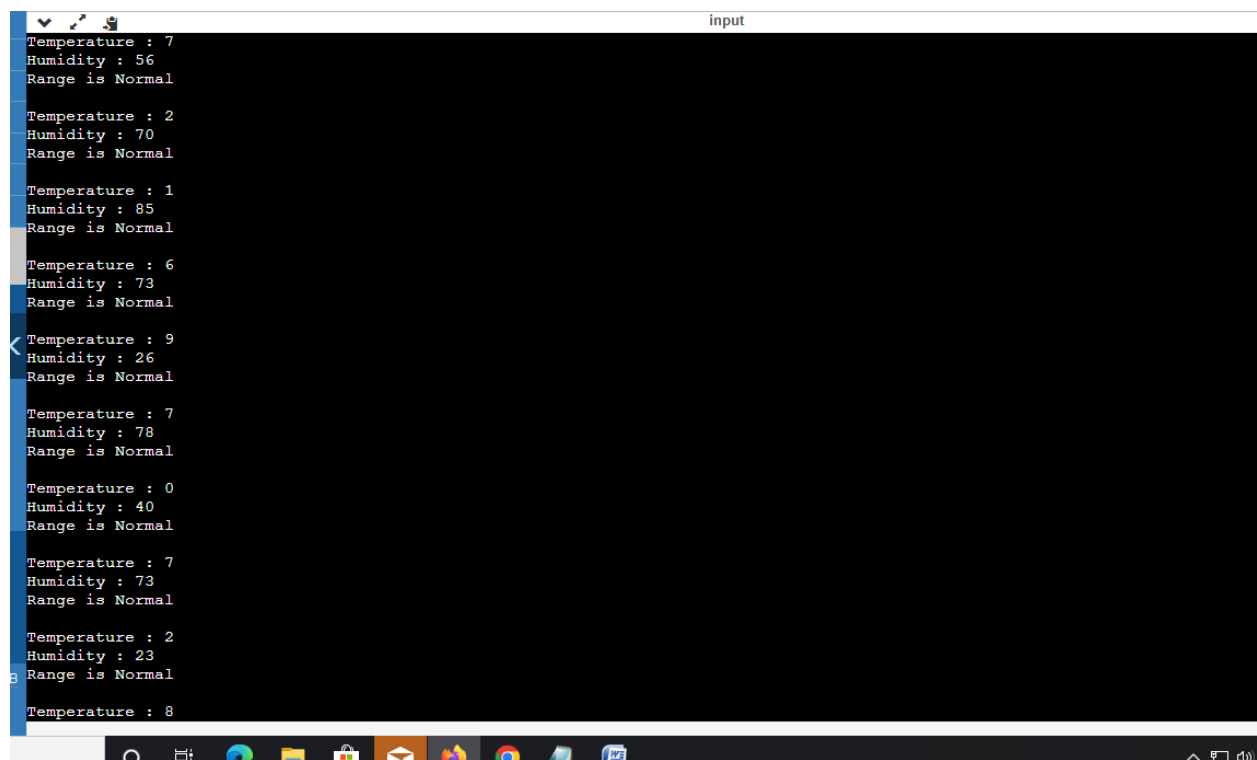
Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

**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
```