

NAME	NISHANTH RAJ
IBM ID	718020L409

QUESTION:

Assignment 2:

Build a python code, Assume we 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
temp = []
humidity = []

temp_threshold = 70
humidity_threshold = 70
for i in range(100):
    temp_x = random.uniform(20, 100)
    temp.append(temp_x)
    humidity_x = random.uniform(20, 100)
    humidity.append(humidity_x)
print("TEMP VALUES")
print("*****")
for i in range(len(temp)):
    if(temp[i]>temp_threshold):
        print("Alarm : ", temp[i])
    else:
        print('Safe: ', temp[i])
print("*****")
print("*****")
print("HUMIDITY VALUES")
print("*****")
for i in range(len(humidity)):
    if (humidity[i] > humidity_threshold):
        print('Alarm: ', temp[i])
    else:
        print('Safe: ', temp[i])
print("*****")
print("*****")
#print(humidity)
#print(temp)
```

OUTPUT:

TEMP VALUES

Safe: 43.373456423230095
Alarm : 72.34707565943425
Alarm : 94.26246898812684
Safe: 28.074511455362252
Alarm : 92.30361251236721
Alarm : 92.25636895592407
Safe: 60.06310338448177
Safe: 34.807623463779166
Alarm : 81.99614055558149
Safe: 57.868397943256085

HUMIDITY VALUES

Safe: 43.373456423230095
Safe: 72.34707565943425
Alarm: 94.26246898812684
Safe: 28.074511455362252
Safe: 92.30361251236721
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