

ASSIGNMENT QUESTION:

Build a python code, assume you 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.

PYTHON CODE:

```
import random
import time
while(1!=0):
    temperature = random.random()
    humidity = random.random()
    print("Temperature: ", "%.5f" % temperature)
    print("Humidity: ", "%.5f" % humidity)
    time.sleep(2)
    if (temperature > 0.7):
        print("high temperature")
    if ( humidity >0.7):
        print("high humidity")
    print("")
```

EXECUTION RESULT

Program :

```
1 import random
2 import time
3 while(1!=0):
4     temperature = random.random()
5     humidity = random.random()
6     print("Temperature: ", "%.5f" % temperature)
7     print("Humidity: ", "%.5f" % humidity)
8     time.sleep(2)
9     if (temperature > 0.7):
10         print("high temperature")
11     if ( humidity >0.7):
12         print("high humidity")
13     print("")
14
```

OUTPUT :

Temperature: 0.44210
Humidity: 0.30621
Temperature: 0.15340
Humidity: 0.01548
Temperature: 0.12711
Humidity: 0.20201
Temperature: 0.18624
Humidity: 0.34339
Temperature: 0.65301
Humidity: 0.40716
Temperature: 0.26559
Humidity: 0.69283
Temperature: 0.93363
Humidity: 0.34054
high temperature
Temperature: 0.40997
Humidity: 0.33623