

Assignment date	September 28,2022
Student Name	M.Nagapriya
Student Roll Number	73771913147
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.

### Solution:

```
import random
import time
while(1!=0):
    temperature = random.random()
    humidity = random.random()
    print("Temperature: ", "%.3f" % temperature)
    print("Humidity: ", "%.3f" % humidity)
    time.sleep(2)
    if (temperature > 0.5):
        print("high temperature")
    if ( humidity >0.5):
        print("high humidity")
    print(" ")
```

```

1 import random
2 import time
3 while(1!=0):
4     temperature = random.random()
5     humidity = random.random()
6     print("Temperature: ", "%.3f" % temperature)
7     print("Humidity: ", "%.3f" % humidity)
8     time.sleep(2)
9     if (temperature > 0.5):
10         print("high temperature")
11     if ( humidity >0.5):
12         print("high humidity")
13     print(" ")

```

```

Temperature: 0.540
Humidity: 0.820
high temperature
high humidity

Temperature: 0.982
Humidity: 0.167
high temperature

Temperature: 0.477
Humidity: 0.010
Temperature: 0.861
Humidity: 0.901
high temperature
high humidity

Temperature: 0.135
Humidity: 0.794
high humidity

Temperature: 0.495
Humidity: 0.454
Temperature: 0.866
Humidity: 0.385
high temperature

```