

Assignment - 2  
Python Programming

Assignment Date	19 September 2022
Student Name	Pradumna
Student Roll Number	2019504043
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:**

```
1
2 import numpy
3 import random
4 while(True):
5     temp=random.uniform(15,55);
6     humidity=random.uniform(10,20)
7     '''Threshold = 40'''
8     print('Temperature(C):',round(temp,2),'Humidity(gm/m^3):',round(humidity,2))
9     print('High temperature detected' if temp>40 else 'Its normal')
10    print('\n')
```

**Output:**

```
Temperature(C): 39.85 Humidity(gm/m^3): 10.52
Its normal

Temperature(C): 50.34 Humidity(gm/m^3): 11.42
High temperature detected

Temperature(C): 41.84 Humidity(gm/m^3): 16.26
High temperature detected

Temperature(C): 29.17 Humidity(gm/m^3): 15.65
Its normal

Temperature(C): 17.05 Humidity(gm/m^3): 12.4
Its normal

Temperature(C): 28.78 Humidity(gm/m^3): 14.96
Its normal
```