

ASSIGNMENT – 2

Assignment Date	25 September 2022
Student Name	Youkhan Hari SS
Student Roll Number	721219106064
Maximum Marks	2 Marks

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.

Solution:

CODE

```
import time
import random
while(True):
    time.sleep(3)
    temperature=random.randint(0,60)
    humidity=random.randint(1,100)
    if temperature<=15:
        print(temperature,"Temperature is low")
    elif temperature<=45:
        print(temperature,"Temperature is Normal")
    else:
        print(temperature,"ALERT, Temperature is High")
    if humidity<=30:
        print(humidity,"ALERT, Humidity is Low")
    elif humidity<=70:
        print(humidity,"Humidity is Normal")
    else:
        print(humidity,"Humidity is High")
```

Temperature.py - C:\Users\dhanu\Desktop\Temperature.py (3.10.1)

File Edit Format Run Options Window Help

```
import time

import random

while(True):

    time.sleep(3)

    temperature=random.randint(0,60)

    humidity=random.randint(1,100)

    if temperature<=15:

        print(temperature,"Temperature is low")

    elif temperature<=45:

        print(temperature,"Temperature is Normal")

    else:

        print(temperature,"ALERT, Temperature is High")

    if humidity<=30:

        print(humidity,"ALERT, Humidity is Low")
```

Ln:1 Col:0

IDLE Shell 3.10.1*

File Edit Shell Debug Options Window Help

```
Python 3.10.1 (tags/v3.10.1:2cd268a, Dec 6 2021, 19:10:37) [MSC v.1929 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: C:\Users\dhanu\Desktop\p\Temperature.py =====
10 Temperature is low
2 ALERT, Humidity is Low
44 Temperature is Normal
43 Temperature is Normal
5 Temperature is low
27 Temperature is Normal
12 ALERT, Humidity is Low
25 Temperature is Normal
15 Temperature is low
38 Temperature is Normal
16 Temperature is Normal
21 Temperature is Normal
0 Temperature is low
6 ALERT, Humidity is Low
25 Temperature is Normal
51 ALERT, Temperature is High
3 ALERT, Humidity is Low
27 Temperature is Normal
22 ALERT, Humidity is Low
```

Ln:9 Col:0