

Assignment -2

Python Programming

Assignment Date	24 September 2022
Student Name	MISS.ANANDHI
Student Roll Number	923819106005
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
True:
    Temperature = random.randint(0,150)
    Humidity = random.randint(0,100)

    if Temperature > 100 and Humidity > 80:
print("Temperature : " + str(Temperature))
print("Humidity : " + str(Humidity))    print("Temperature
and Humidity is High")
        print("Alarm On !!!")
        print(" ")
time.sleep(2)    else:
        print("Temperature : " + str(Temperature))
print("Humidity : " + str(Humidity))
print("Range is Normal")    print(" ")
```

Assignment 2.py - C:\Users\ELCOT\Desktop\Assignment 2.py (3.10.7)

File Edit Format Run Options Window Help

```
import random
import time
while True:
    Temperature = random.randint(0,150)
    Humidity = random.randint(0,100)

    if Temperature > 100 and Humidity > 80:
        print("Temperature : " + str(Temperature))
        print("Humidity : " + str(Humidity))
        print("Temperature and Humidity is High")
        print("Alarm On !!!")
        print(" ")
        time.sleep(2)
    else:
        print("Temperature : " + str(Temperature))
        print("Humidity : " + str(Humidity))
        print("Range is Normal")
        print(" ")
```

IDLE Shell 3.10.7

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Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>> ===== RESTART: C:\Users\ELCOT\Desktop\Assignment 2.py =====

```
Temperature : 66
Humidity : 95
Range is Normal
```

```
Temperature : 100
Humidity : 52
Range is Normal
```

```
Temperature : 64
Humidity : 1
Range is Normal
```

```
Temperature : 103
Humidity : 77
Range is Normal
```

```
Temperature : 9
Humidity : 46
Range is Normal
```

```
Temperature : 88
Humidity : 17
Range is Normal
```

```
Temperature : 127
Humidity : 82
Temperature and Humidity is High
Alarm On !!!
```

Range is Normal

Temperature : 80

Humidity : 83

Range is Normal

Temperature : 125

Humidity : 30

Range is Normal

Temperature : 139

Humidity : 7

Range is Normal

Temperature : 2

Humidity : 18

Range is Normal

Temperature : 24

Humidity : 29

Range is Normal

Temperature : 18

Humidity : 88

Range is Normal

Temperature : 143

Humidity : 39

Range is Normal

Temperature : 14

Humidity : 63

Range is Normal

Temperature : 111

Humidity : 96

Temperature and Humidity is High

Alarm On !!!