

Assignment -02

Python Programming

Assignment Date	29 September 2022
Student Name	Switha D
Student Roll Number	422719106022
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 :

```
import random
threshold_temperature=80
threshold_humidity=20
while True:
    temperature=random.randint(1,100)
    humidity=random.randint(1,50)
    print(humidity)
    print(temperature)
    if(temperature>threshold_temperature or humidity>threshold_humidity):print("HIGH
    TEMPERATURE & ALARM TRIGGERS")
    elif(humidity<threshold_humidity or temperature>threshold_temperature):print("LOW
    TEMPERATURE & ALARM TURNS OFF")
    else:
        print("NORMAL TEMPERATURE & ALARM TURNS OFF")
```

HIGH TEMPERATURE & ALARM TRIGGERS22
91
HIGH TEMPERATURE & ALARM TRIGGERS14
71
LOW TEMPERATURE & ALARM TURNS OFF37
38
HIGH TEMPERATURE & ALARM TRIGGERS34
92
HIGH TEMPERATURE & ALARM TRIGGERS27
31
HIGH TEMPERATURE & ALARM TRIGGERS22
92
HIGH TEMPERATURE & ALARM TRIGGERS22
55
HIGH TEMPERATURE & ALARM TRIGGERS
23
16
HIGH TEMPERATURE & ALARM TRIGGERS40
73
HIGH TEMPERATURE & ALARM TRIGGERS14
25
LOW TEMPERATURE & ALARM TURNS OFF23
9

HIGH TEMPERATURE & ALARM TRIGGERS7

3

LOW TEMPERATURE & ALARM TURNS OFF31

```
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73

HIGH TEMPERATURE & ALARM TRIGGERS14

25

LOW TEMPERATURE & ALARM TURNS OFF23

9

HIGH TEMPERATURE & ALARM TRIGGERS7

3

LOW TEMPERATURE & ALARM TURNS OFF31

44
HIGH TEMPERATURE & ALARM TRIGGERS5
97
HIGH TEMPERATURE & ALARM TRIGGERS19
41
LOW TEMPERATURE & ALARM TURNS OFF31
77
HIGH TEMPERATURE & ALARM TRIGGERS11
100
HIGH TEMPERATURE & ALARM TRIGGERS20
2
NORMAL TEMPERATURE & ALARM TURNS OFF22
56
HIGH TEMPERATURE & ALARM TRIGGERS



