

## Assignment -02

### Python Programming

Assignment Date	29 September 2022
Student Name	Saranya K
Student Roll Number	422719106017
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

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

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



