Assignment -02
Python Programming

Assignment Date	29 September 2022
Student Name	Leelavathy A
Student Roll Number	422719106014
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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    threshold_temperature=80
    threshold_humidity=20
    while True:
        temperature=random.randint(1,100)
        humidity=random.randint(1,50)
        print(humidity)
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HIGH TEMPERATURE & ALARM TRIGGERS7
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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