Assignment 2

Date :25 September 2022
Student Name : INDHUMATHI S
Student Roll Number 111719104061
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 incase of high temperature.

Program Code :

```
importrandom#randomfunction
temp=random.randint(1,100)
humty=random.randint(1,100)
print(temp)#temperaturevalue
print(humty)#hmidityvalue
 if((temp<30)&(humty<50)):
    print("temperatureisnormal:")
    print("humidityisnormal:")
    print("alarmoff")
elif((temp<30)&(humty>50)):
    print("temperatureislow")
    print("humidityishigh")
    print("alarmoff")
elif((temp>30)&(humty<50)):
    print("temperatureishigh:")
```

```
        print("humidityisnormal")
        print("alarmon")
elif((temp>30)&(humty<60)):
        print("temperatureishigh")
        print("humidityisnormal:")
        print("alarmon")
elif((temp>30)&(humty>60)):
        print("temperatureishigh")
        print("humidityishigh")
```

main.py   ⬚ ☾   **Run**

```
 1   # Online Python compiler (interpreter) to run Python online.
 2   # Write Python 3 code in this online editor and run
 3   import random#randomfunction
 4   temp=random.randint(1,100)
 5   humty=random.randint(1,100)
 6   print(temp)#temperaturevalue
 7   print(humty)#hmidityvalue
 8 ▾ if((temp<30)&(humty<50)):
 9       print("temperatureisnormal:")
10       print("humidityisnormal:")
11       print("alarmoff")
12 ▾ elif((temp<30)&(humty>50)):
13       print("temperatureislow")
14       print("humidityishigh")
15       print("alarmoff")
16 ▾ elif((temp>30)&(humty<50)):
17       print("temperatureishigh:")
18       print("humidityisnormal")
19       print("alarmon")
20 ▾ elif((temp>30)&(humty<60)):
21       print("temperatureishigh")
22       print("humidityisnormal:")
23       print("alarmon")
24 ▾ elif((temp>30)&(humty>60)):
25       print("temperatureishigh")
26       print("humidityishigh")
27
```

```
Shell                                                        Clear

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2
temperatureishigh:
humidityisnormal
alarmon
>
```