

ASSIGNMENT 2

PYTHON PROGRAMMING

Assignment Date	21 September 2022
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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
import time
while(1):
    temperature=random.randint(0,100)
    humidity=random.randint(10,100)
    print("HUMIDITY :",humidity,"%")
    print("TEMPERTAURE",temperature,chr(176),"C")
    if(temperature>=0 and temperature<=20):
        print("Temperature is too cold")
    elif(temperature>20 and temperature<=40):
        print("Normal temperature")
    else:
        print("ALERT!!!!")
        print("Tempertaure is too hot")
```

```
print("ON Alarm system")  
time.sleep(3)  
print("\n")
```


CODE:

 assignment.py - C:/Users/DELL/Desktop/Python/assignment.py (3.7.0)

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```
import random  
import time  
while(1):  
    temperature=random.randint(0,100)  
    humidity=random.randint(10,100)  
    print("HUMIDITY :",humidity,"%")  
    print("TEMPERTAURE",temperature,chr(176),"C")  
    if(temperature>=0 and temperature<=20):  
        print("Temperature is too cold")  
    elif(temperature>20 and temperature<=40):  
        print("Normal temperature")  
    else:  
        print("ALERT!!!!")  
        print("Tempertaure is too hot")  
        print("ON Alarm system")  
    time.sleep(3)  
    print("\n")
```

OUTPUT:

 *Python 3.7.0 Shell*

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===== RESTART: C:/Users/DELL/Desktop/Python/assignment.py =====

HUMIDITY : 72 %

TEMPERTAURE 19 ° C

Temperature is too cold

HUMIDITY : 85 %

TEMPERTAURE 21 ° C

Normal temperature

HUMIDITY : 34 %

TEMPERTAURE 26 ° C

Normal temperature

HUMIDITY : 17 %

TEMPERTAURE 24 ° C

Normal temperature

HUMIDITY : 24 %

TEMPERTAURE 15 ° C

Temperature is too cold

HUMIDITY : 28 %

TEMPERTAURE 67 ° C

ALERT!!!!

Tempertaure is too hot

ON Alarm system