

## ASSIGNMENT 2 - PYTHON PROGRAMMING

NAME:SANJIV S S

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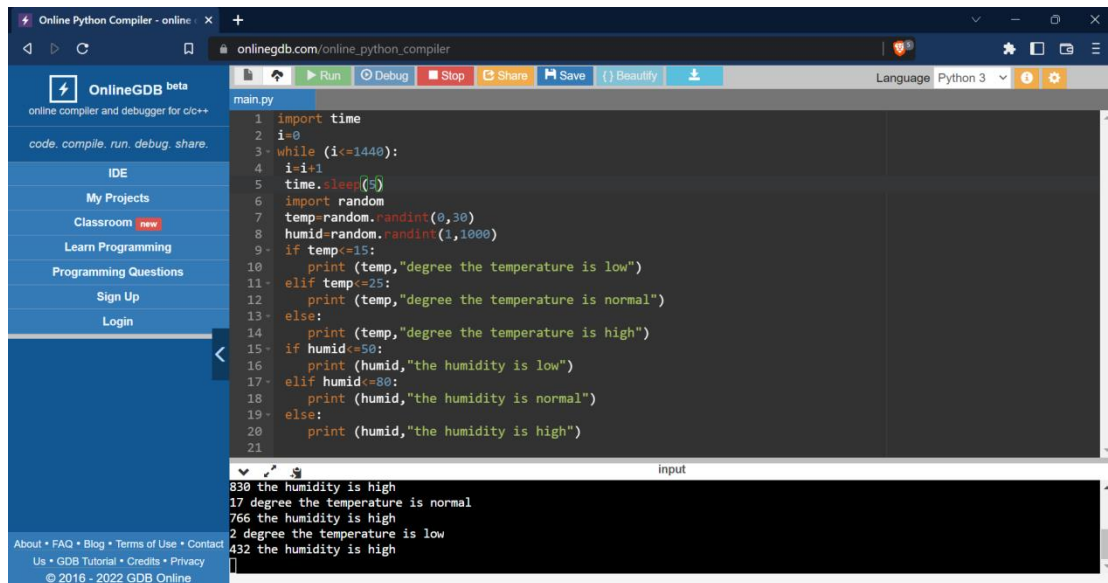
### Question :

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 time
i=0
while (i<=1440):
    i=i+1
    time.sleep(5)
    import random
    temp=random.randint(0,30)
    humid=random.randint(1,1000)
    if temp<=15:
        print (temp,"degree the temperature is low")
    elif temp<=25:
        print (temp,"degree the temperature is normal")
    else:
        print (temp,"degree the temperature is high")
    if humid<=50:
        print (humid,"the humidity is low")
    elif humid<=80:
        print (humid,"the humidity is normal")
    else:
        print (humid,"the humidity is high")
```

Screenshot:



The screenshot shows the OnlineGDB web interface. On the left is a sidebar with navigation links: IDE, My Projects, Classroom (marked 'new'), Learn Programming, Programming Questions, Sign Up, and Login. The main area displays a Python script in a dark-themed editor. The script is a loop that generates random temperature and humidity values and prints them. Below the editor is a terminal window showing the output of the script.

```
1 import time
2 i=0
3 while (i<=1440):
4     i=i+1
5     time.sleep(15)
6     import random
7     temp=random.randint(0,30)
8     humid=random.randint(1,1000)
9     if temp<=15:
10        print (temp,"degree the temperature is low")
11    elif temp<=25:
12        print (temp,"degree the temperature is normal")
13    else:
14        print (temp,"degree the temperature is high")
15    if humid<=50:
16        print (humid,"the humidity is low")
17    elif humid<=80:
18        print (humid,"the humidity is normal")
19    else:
20        print (humid,"the humidity is high")
21
```

input

```
830 the humidity is high
17 degree the temperature is normal
766 the humidity is high
2 degree the temperature is low
432 the humidity is high
```

**CODE LINK:**<https://onlinegdb.com/ZaJL2zDa8>