

ASSIGNMENT 2 - PYTHON PROGRAMMING

NAME:MUNIYAPPAN

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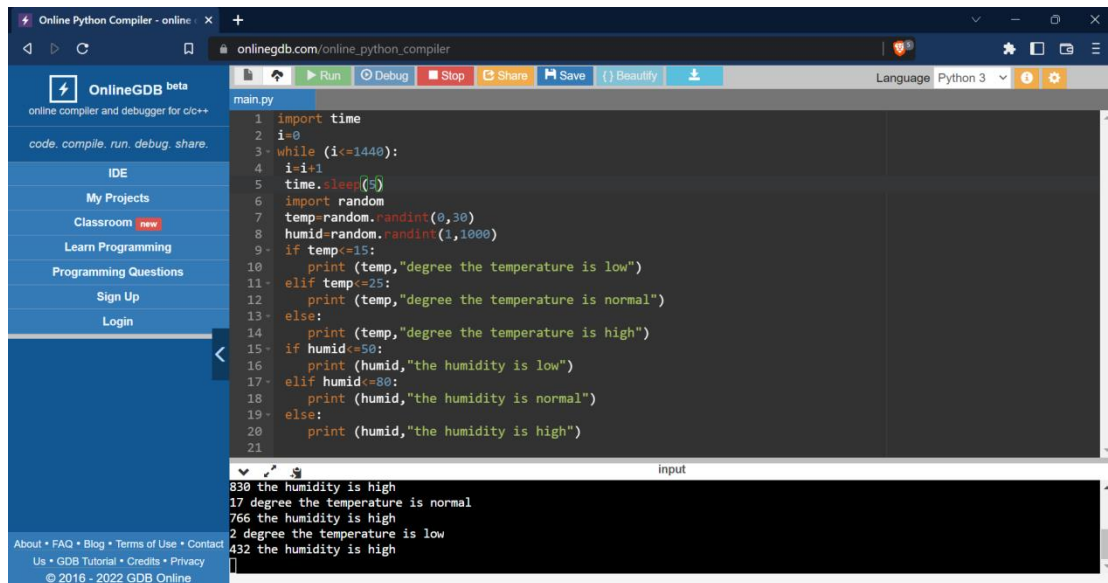
Question :

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 displays the OnlineGDB web interface. On the left is a blue sidebar with navigation links: IDE, My Projects, Classroom (marked 'new'), Learn Programming, Programming Questions, Sign Up, and Login. The main area shows a Python script in a dark-themed editor. The script imports the 'time' module and uses a 'while' loop to generate random temperature and humidity values, printing them with conditional checks. Below the editor, the 'input' tab shows the program's output, which includes several lines of printed data. The footer of the sidebar contains links for About, FAQ, Blog, Terms of Use, Contact Us, GDB Tutorial, Credits, Privacy, and a copyright notice for 2016-2022 GDB Online.

```
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>