

IOT Assignment

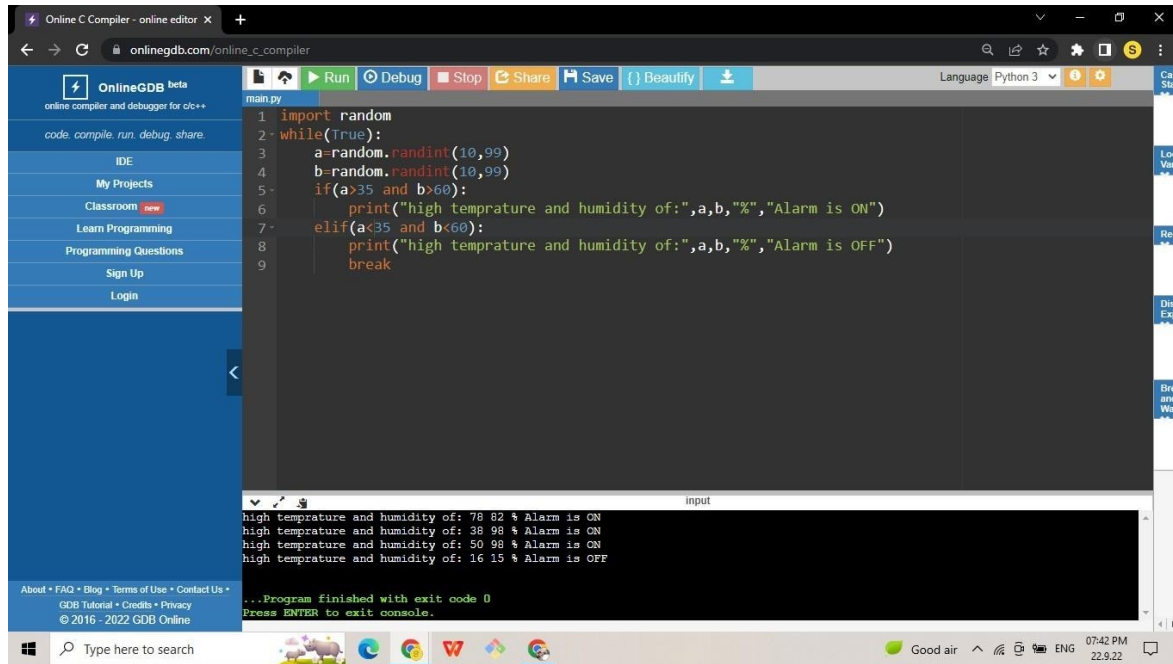
Topic : Assignment on temperature and humidity sensing and alarm

DOMAIN NAME : Internet Of Things

Code:-

```
import
random
while(True):
    a=random.randint(10,99
    )
    b=random.randint(10,99
    )if(a>35 and b>60):
        print("high temprature and humidity of:",a,b,"%","alarm is
on")elif(a<35 and b<60):
        print("Normal temprature and humidity of:",a,b,"%","alarm is
off")break
```

Output:-



The screenshot shows a web browser window with the OnlineGDB online editor. The code is a Python script that imports the random module and enters a while loop. Inside the loop, it generates random temperature (a) and humidity (b) values between 10 and 99. It then checks if the temperature is greater than 35 and humidity is greater than 60. If true, it prints "high temprature and humidity of: ", the values, and "Alarm is ON". If false, it prints "high temprature and humidity of: ", the values, and "Alarm is OFF". The program breaks after the first iteration.

```
1 import random
2 while(True):
3     a=random.randint(10,99)
4     b=random.randint(10,99)
5     if(a>35 and b>60):
6         print("high temprature and humidity of:",a,b,"%","Alarm is ON")
7     elif(a<35 and b<60):
8         print("high temprature and humidity of:",a,b,"%","Alarm is OFF")
9     break
```

The output in the console shows four iterations of the program with the following values:

```
high temprature and humidity of: 78 82 % Alarm is ON
high temprature and humidity of: 38 98 % Alarm is ON
high temprature and humidity of: 50 98 % Alarm is ON
high temprature and humidity of: 16 15 % Alarm is OFF
```

The program finished with exit code 0. The user is prompted to press ENTER to exit the console.