

Assignment 2

Student Name	Goghul S
Student Roll Number	737819CSR043
Maximum Marks	2 Marks

Smart Waste Management System for Metropolitan Cities

TEAM ID: PNT2022TMID04344

IBM Nalaiya Thiran

Question 1:

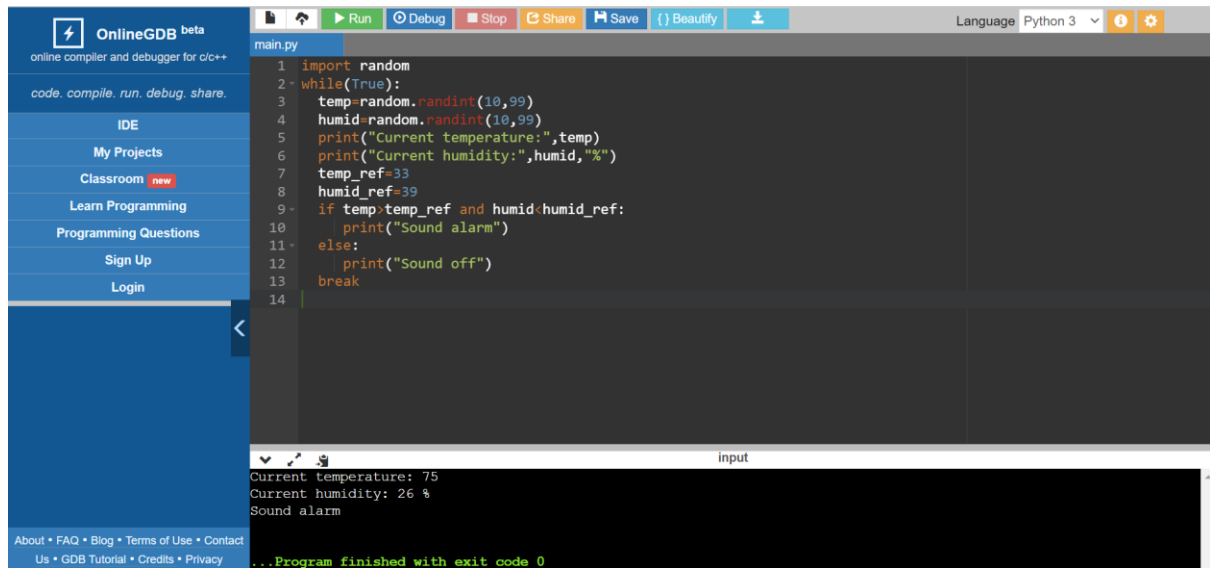
Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Code:

```
import random
while(True):
    temp=random.randint(10,99)
    humid=random.randint(10,99)
    print("current temperature:",temp)
    print("current humidity:",humid,"%")
    temp_ref=37
    humid_ref=35
    if temp>temp_ref and humid<humid_ref:
        print("Sound alarm")
    else:
        print("Sound off")
```

break

Output:



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 code editor with a file named 'main.py'. The code is a Python script that imports the 'random' module and enters a 'while(True):' loop. Inside the loop, it generates random values for 'temp' and 'humid' using 'random.randint(10,99)'. It then prints these values. Reference values 'temp_ref=33' and 'humid_ref=39' are set. An 'if' statement checks if both current values are greater than or equal to their respective references. If true, it prints 'Sound alarm'; otherwise, it prints 'Sound off'. A 'break' statement is at the end of the loop. The bottom panel shows the program's output: 'Current temperature: 75', 'Current humidity: 26 %', and 'Sound alarm'. The status bar at the bottom indicates '...Program finished with exit code 0'.

```
1 import random
2 while(True):
3     temp=random.randint(10,99)
4     humid=random.randint(10,99)
5     print("Current temperature:",temp)
6     print("Current humidity:",humid,"%")
7     temp_ref=33
8     humid_ref=39
9     if temp>=temp_ref and humid>=humid_ref:
10         print("Sound alarm")
11     else:
12         print("Sound off")
13     break
14
```

Current temperature: 75
Current humidity: 26 %
Sound alarm

...Program finished with exit code 0