

KONGU ENGINEERING COLLEGE

Smart Waste Management System for Metropolitan Cities

TEAM ID: PNT2022TMID04344

IBM Nalaiya Thiran Assignment 2:

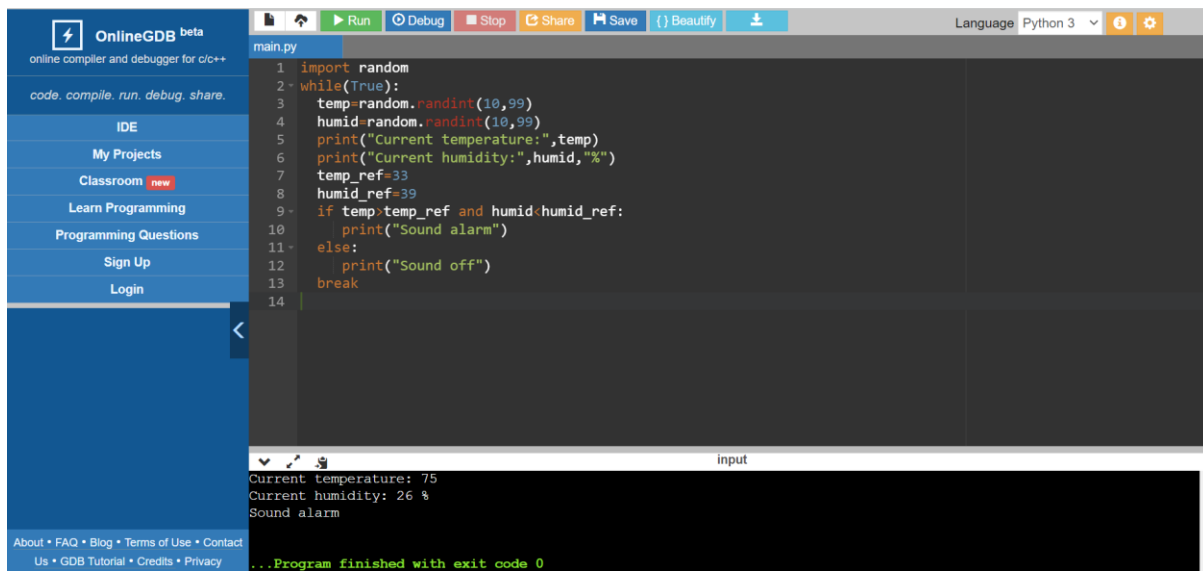
Aim:

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. At the bottom of the sidebar are links for About, FAQ, Blog, Terms of Use, Contact Us, GDB Tutorial, Credits, and Privacy. The top of the interface features a toolbar with icons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. The language is set to Python 3. The main editor shows a file named 'main.py' with the following Python code:

```
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
```

Below the editor is an 'input' field. The output window at the bottom shows the program's execution results:

```
Current temperature: 75
Current humidity: 26 %
Sound alarm
...Program finished with exit code 0
```