

IBM-NALAYATHIRAN

DOMAIN-IOT

ASSIGNMENT 2

TEMPERATURE AND HUMIDITY SENSING AND ALARM AUTOMATION USING  
PYTHON

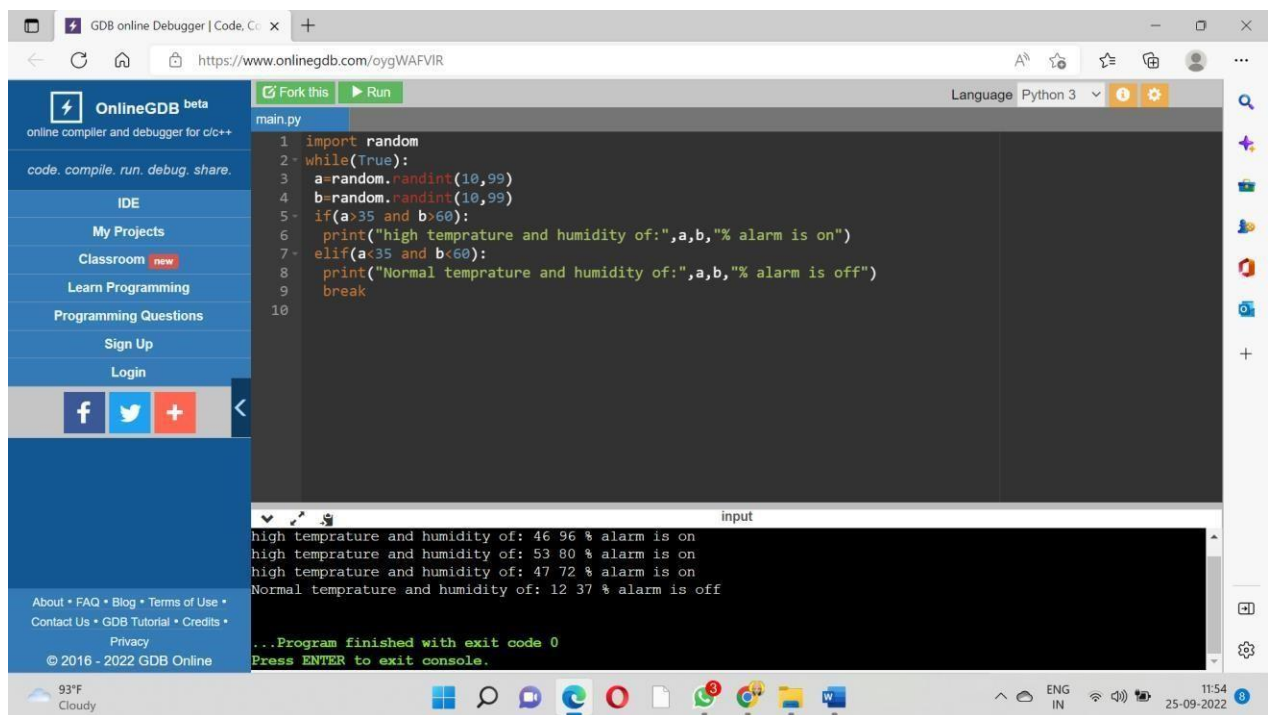
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CODE:

```
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 the OnlineGDB web interface. The browser address bar displays <https://www.onlinegdb.com/oYgWAFVIR>. The interface includes a sidebar with navigation links such as 'IDE', 'My Projects', 'Classroom', 'Learn Programming', 'Programming Questions', 'Sign Up', and 'Login'. The main editor area shows a Python file named 'main.py' with the following code:

```
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("Normal temprature and humidity of:",a,b,"% alarm is off")  
9         break  
10
```

Below the code editor is a console window showing the program's output:

```
high temprature and humidity of: 46 96 % alarm is on  
high temprature and humidity of: 53 80 % alarm is on  
high temprature and humidity of: 47 72 % alarm is on  
Normal temprature and humidity of: 12 37 % alarm is off  
...Program finished with exit code 0  
Press ENTER to exit console.
```

The bottom of the screenshot shows a Windows taskbar with the date and time as 11:54 on 25-09-2022, and a system tray indicating 93°F and Cloudy weather.