

VSB Engineering College, Karur-639111

Department of Electronics and Communication Engineering

IOT Assignment

Topic : Assignment on temperature and humidity sensing and alarm

DOMAIN NAME : Internet Of Things

Name: Thulasinathan S

MENTOR NAME : Mahesh Kumar

Code:-

```
import random
```

```
while(True):
```

```
    a=random.randint(10,99)
```

```
    b=random.randint(10,99)
```

```
    if(a>35 and b>60):
```

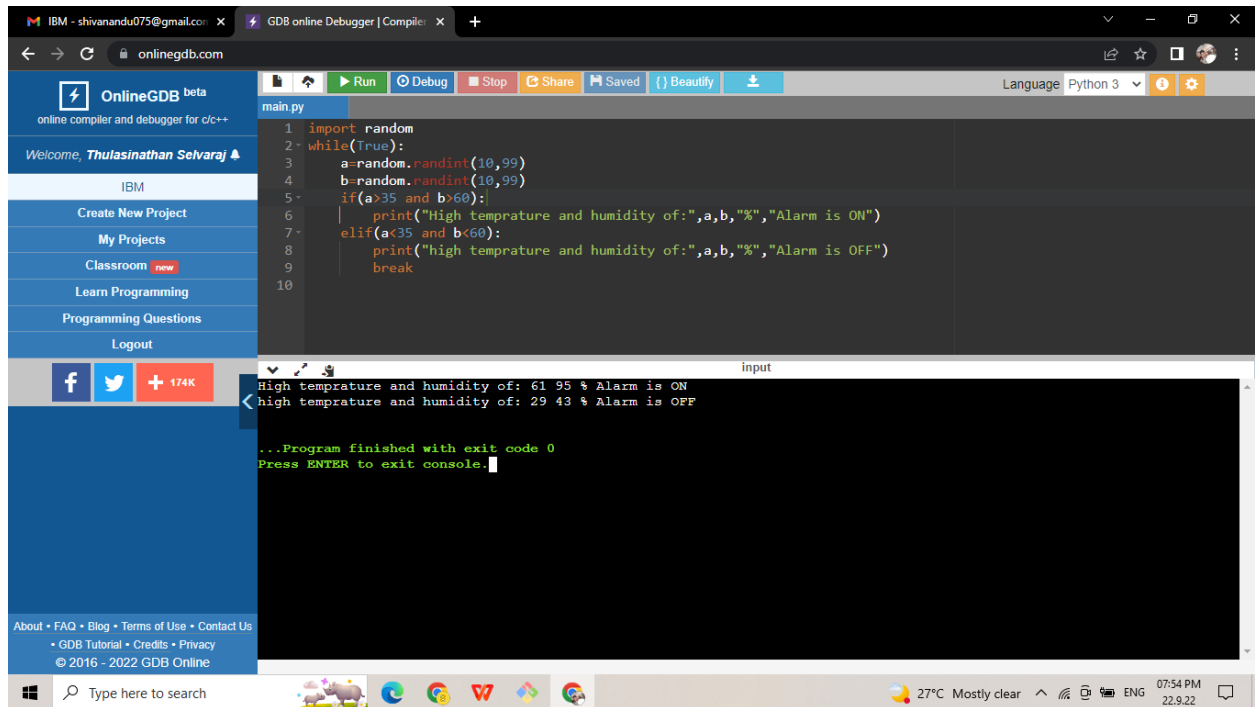
```
        print("High temprature and humidity of:",a,b,"%","alarm is  
on")
```

```
    elif(a<35 and b<60):
```

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

```
        break
```

Output:-



The screenshot displays the OnlineGDB beta web interface. The browser's address bar shows 'onlinegdb.com'. The left sidebar contains navigation links: 'Welcome, Thulasinathan Selvaraj', 'IBM', 'Create New Project', 'My Projects', 'Classroom', 'Learn Programming', 'Programming Questions', and 'Logout'. The main area features a code editor with a Python script named 'main.py'. The script imports the 'random' module and enters a 'while(True):' loop. Inside the loop, it generates two random integers, 'a' and 'b', both ranging from 10 to 99. It then checks if 'a' is greater than 35 and 'b' is greater than 60. If true, it prints 'High temprature and humidity of:', followed by the values of 'a' and 'b', and 'Alarm is ON'. If false, it prints 'high temprature and humidity of:', followed by the values of 'a' and 'b', and 'Alarm is OFF'. The loop breaks after the first iteration. Below the code editor, the output console shows the results of the program's execution. The first line is 'High temprature and humidity of: 61 95 % Alarm is ON' and the second line is 'high temprature and humidity of: 29 43 % Alarm is OFF'. The console also indicates that the program finished with exit code 0 and prompts the user to press ENTER to exit the console. The bottom of the image shows a Windows taskbar with various application icons and a system tray displaying the temperature as 27°C, the weather as 'Mostly clear', and the time as 07:54 PM on 22.9.22.

```
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
10
```

High temprature and humidity of: 61 95 % Alarm is ON
high temprature and humidity of: 29 43 % Alarm is OFF

...Program finished with exit code 0
Press ENTER to exit console.