

VSB Engineering College, Karur-639111

Department of Electronics and Communication Engineering

IOT Assignment

Topic : Assignment on temperature and humidity sensing and alarm automation using python

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Code:-

```
import random
```

```
while(True):
```

```
    a=random.randint(9,89)
```

```
    b=random.randint(9,89)
```

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

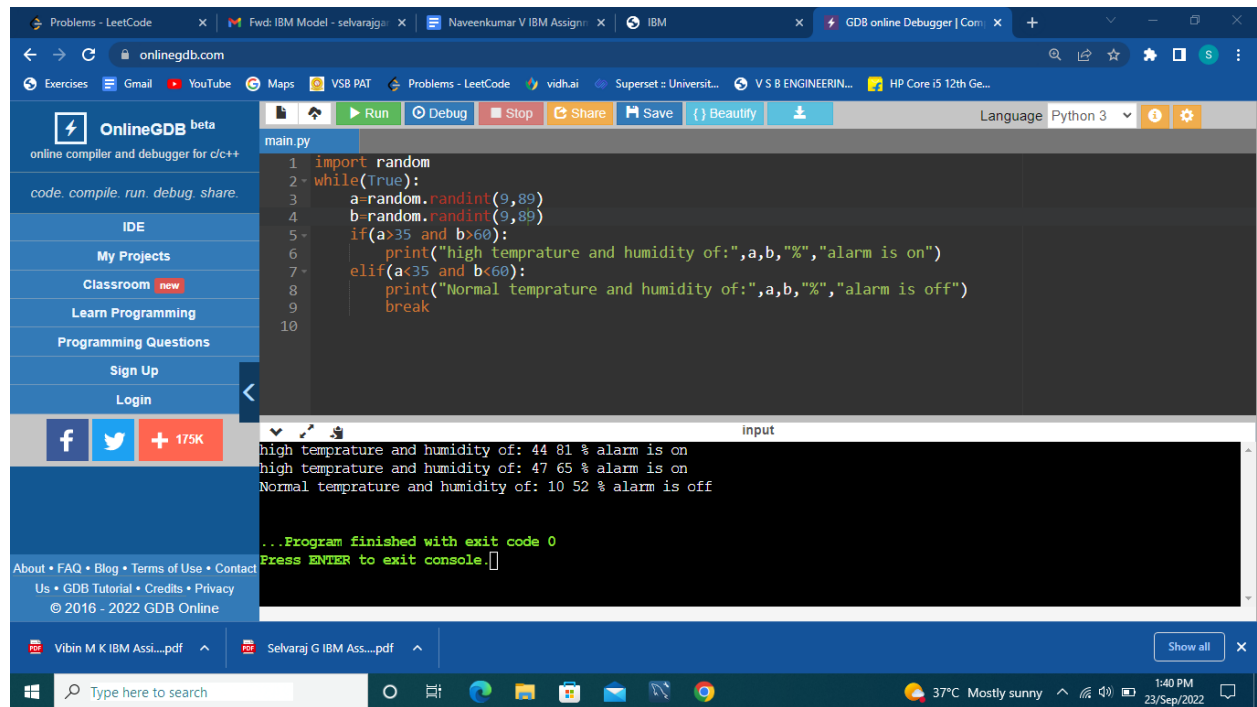
```
        print("high temprature and humidity of:",a,b,"%","alarm is on")
```

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

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

```
    break
```

Output:-



The screenshot displays the OnlineGDB web application. The browser's address bar shows 'onlinegdb.com'. The left sidebar contains navigation links: 'Exercises', 'Gmail', 'YouTube', 'Maps', 'VS8 PAT', 'Problems - LeetCode', 'vidhai', 'Superset : Universit...', 'V S B ENGINEERIN...', and 'HP Core i5 12th Ge...'. The main area is divided into a code editor and an output console. The code editor shows a Python script named 'main.py' with the following content:

```
1 import random
2 while(True):
3     a=random.randint(0,89)
4     b=random.randint(0,89)
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
```

The output console shows the results of the program's execution:

```
high temprature and humidity of: 44 81 % alarm is on
high temprature and humidity of: 47 65 % alarm is on
Normal temprature and humidity of: 10 52 % alarm is off
...Program finished with exit code 0
Press ENTER to exit console.
```

The bottom of the image shows the Windows taskbar with the search bar, task view button, and several open applications. The system tray indicates a temperature of 37°C, mostly sunny weather, and the time 1:40 PM on 23/Sep/2022.