

VSB Engineering College, Karur-639111

Department of Electronics and Communication Engineering

IOT Assignment - 2

Topic : Assignment on 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):
```

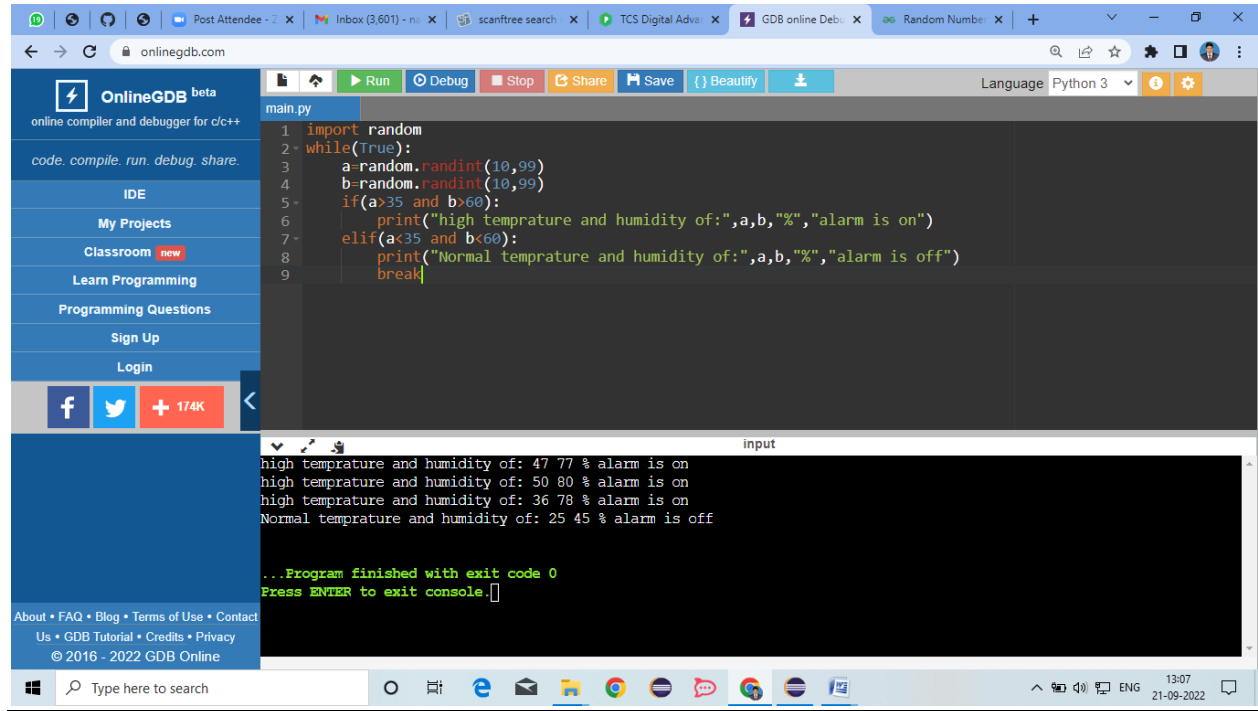
```
        print("high temprature and humidity of:",a,b,"%","alarm is on")
```

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

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

```
    break
```

Output:-



The screenshot displays the OnlineGDB web interface. The browser's address bar shows 'onlinegdb.com'. The interface includes a sidebar with navigation links such as 'IDE', 'My Projects', 'Classroom', 'Learn Programming', 'Programming Questions', 'Sign Up', and 'Login'. The main area contains 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 numbers, '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 'Normal temprature and humidity of:' followed by the values of 'a' and 'b', and 'alarm is off'. The program breaks out of the loop after the first iteration. Below the code editor, the output console shows the results of the program's execution, displaying four lines of output corresponding to the random values generated. The output ends with '...Program finished with exit code 0' and 'Press ENTER to exit console.'.

```
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
```

high temprature and humidity of: 47 77 % alarm is on
high temprature and humidity of: 50 80 % alarm is on
high temprature and humidity of: 36 78 % alarm is on
Normal temprature and humidity of: 25 45 % alarm is off

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