

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

Name: Naveenkumar V

Code:-

```
import random

while(True):

    a=random.randint(10,99)

    b=random.randint(10,99)

    if(a>35 and b>60):

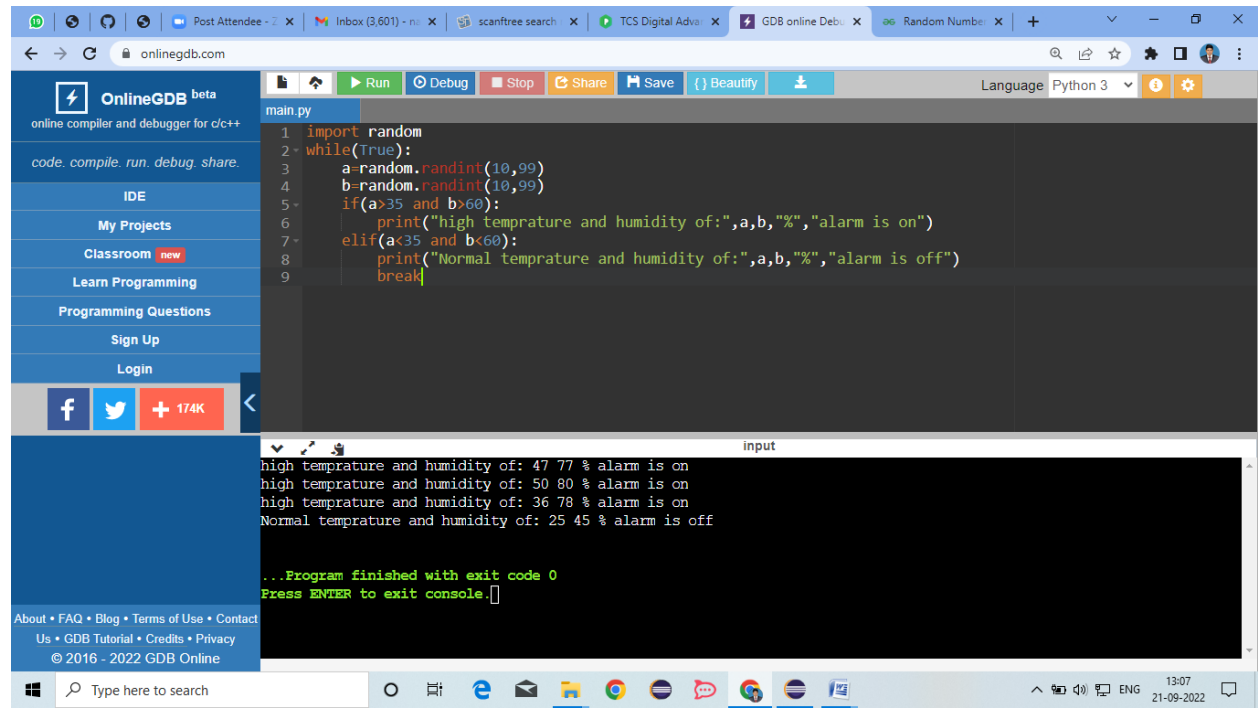
        print("high temprature and humidity of:",a,b,"%","alarm is on")

    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 application. 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. The output window at the bottom shows the execution results, displaying three lines of 'high temprature and humidity of:' followed by values and 'alarm is on', and one line of 'Normal temprature and humidity of:' followed by values and 'alarm is off'. The program finishes with exit code 0.

```
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.
