

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(10,99)

    b=random.randint(10,99)

    if(a>35 and b>60):

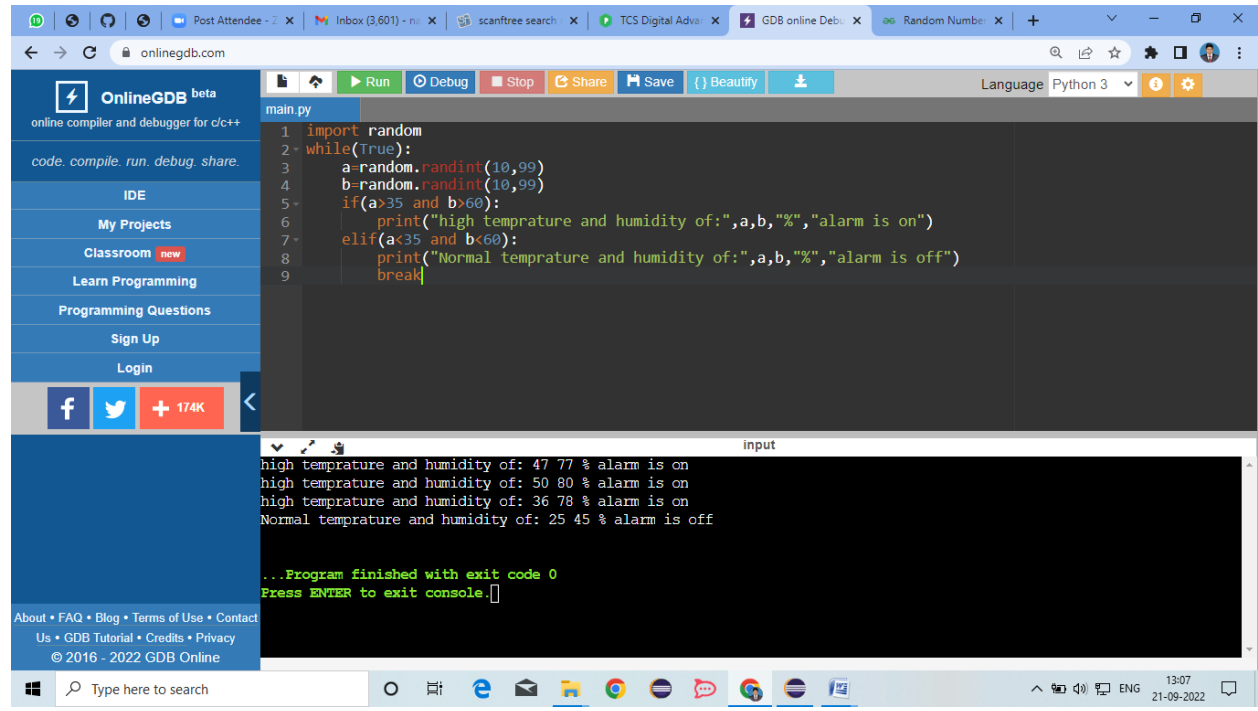
        print("high temprature and humidity of:",a,b,"%","alarm is on")

    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 code editor contains a Python script named 'main.py' that uses the 'random' module to generate two random numbers, 'a' and 'b', both ranging from 10 to 99. A 'while' loop runs indefinitely. Inside the loop, it 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 checks if 'a' is less than 35 and 'b' is less than 60. If true, it prints 'Normal temprature and humidity of:', followed by the values of 'a' and 'b', and 'alarm is off'. The program then breaks the loop. The output console shows the results of the program's execution, displaying four lines of output corresponding to the conditions in the code. 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.
