

VELAMMAL INSTITUTE OF TECHNOLOGY, THIRUVALLUR-601204

Department of Electronics and Communication Engineering

IOT Assignment

Topic: Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

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Code:-

```
import random

while(True):

    a=random.randint(15,88)

    b=random.randint(15,88)

    if(a>35 and b>60):

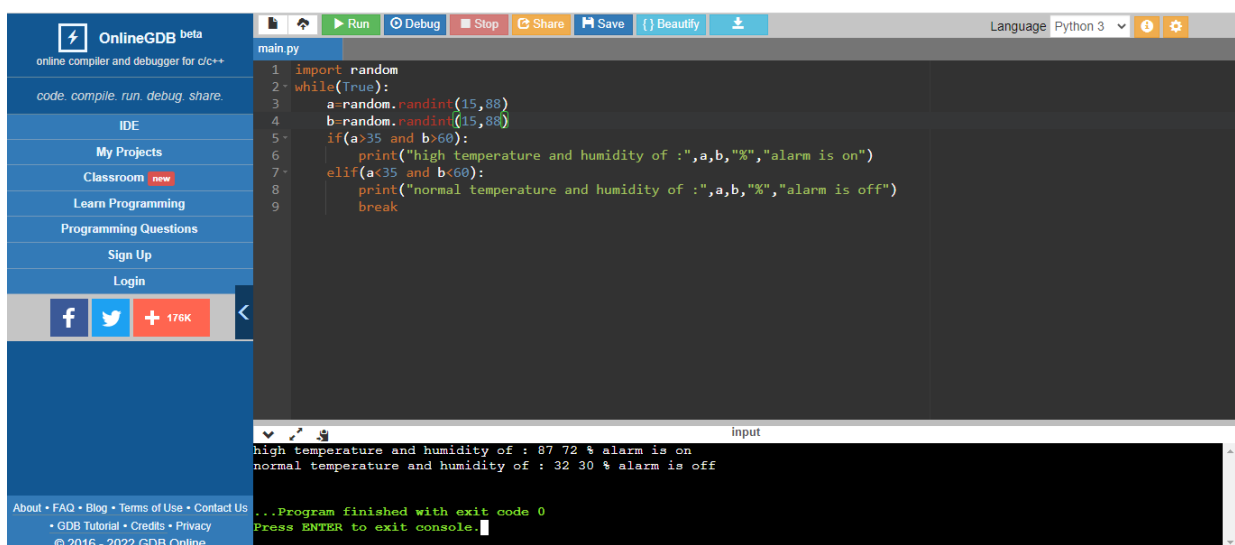
        print("high temperature and humidity of :",a,b,"%", "alarm is on") elif(a<35

and b<60):

        print("normal temperature and humidity of :",a,b,"%", "alarm is off")

    break
```

output:

The screenshot shows the OnlineGDB web interface. On the left is a sidebar with navigation links like 'IDE', 'My Projects', 'Classroom', and 'Sign Up'. The main area displays a Python script in a code editor. The script uses the random module to generate temperature (a) and humidity (b) values. It enters a while loop that checks if both values are above certain thresholds (35 for temperature, 60 for humidity). If so, it prints an alarm message; otherwise, it prints a normal status message. The output console at the bottom shows two iterations: one with high values (87, 72) triggering an alarm, and another with lower values (32, 30) showing a normal status. The program ends with an exit code of 0.

```
1 import random
2 while(True):
3     a=random.randint(15,88)
4     b=random.randint(15,88)
5     if(a>35 and b>60):
6         print("high temperature and humidity of :",a,b,"%", "alarm is on")
7     elif(a<35 and b<60):
8         print("normal temperature and humidity of :",a,b,"%", "alarm is off")
9     break
```

high temperature and humidity of : 87 72 % alarm is on
normal temperature and humidity of : 32 30 % alarm is off

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