

# 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.

**Name:** Ganapathi Chirudivya

#### Code:-

```
import random

while(True):

    a=random.randint(15,88)

    b=random.randint(15,88)

    if(a>35 and b>60):

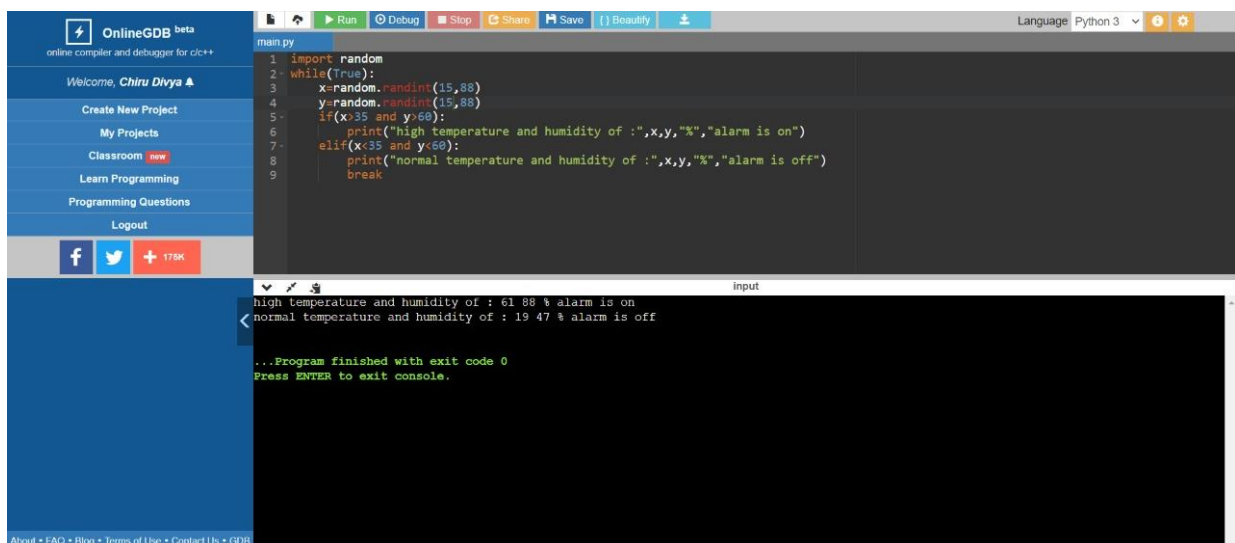
        print("high temperature and humidity of :",a,b,"%","alarm is on") elif(a<35

and b<60):

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

        break
```

#### output:

The screenshot shows the OnlineGDB beta interface. On the left is a sidebar with navigation links: 'Welcome, Chiru Divya', 'Create New Project', 'My Projects', 'Classroom' (marked as new), 'Learn Programming', 'Programming Questions', and 'Logout'. Below these are social media icons for Facebook, Twitter, and a plus sign for more. The main area displays a Python script in a dark-themed editor. The script imports the 'random' module and enters a 'while(True):' loop. Inside the loop, it generates two random integers 'a' and 'b' between 15 and 88. It then checks if 'a > 35 and b > 60'. If true, it prints 'high temperature and humidity of :', followed by the values of 'a' and 'b', a percentage sign, and 'alarm is on'. If false, it prints 'normal temperature and humidity of :', followed by the values of 'a' and 'b', a percentage sign, and 'alarm is off'. The loop is broken after each iteration. Below the editor, the output console shows the results of the program: 'high temperature and humidity of : 61 88 % alarm is on' and 'normal temperature and humidity of : 19 47 % alarm is off'. The console also indicates that the program finished with exit code 0 and prompts the user to press ENTER to exit the console. The bottom of the interface has links for 'About', 'FAQ', 'Blog', 'Terms of Use', and 'Contact Us'.