

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>32 and b>64):

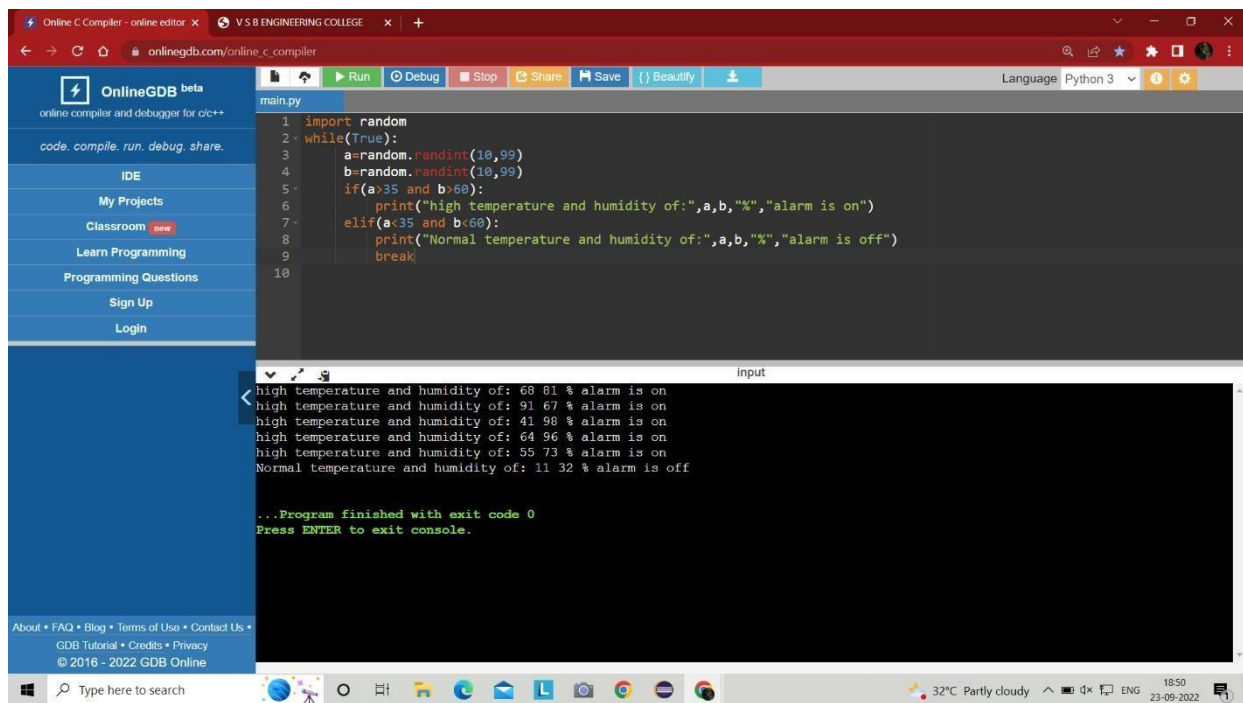
        print("high temperature and humidity
              of:",a,b,"%","alarm is on")

    elif(a<36 and b<64):

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

    break
```

OUTPUT:



The screenshot shows a web browser window with the URL `onlinegdb.com/online_c_compiler`. The page features a sidebar on the left with navigation links: "OnlineGDB beta", "code, compile, run, debug, share.", "IDE", "My Projects", "Classroom", "Learn Programming", "Programming Questions", "Sign Up", and "Login". 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`, both ranging from 10 to 99. 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`, and "alarm is on". If false, it prints "Normal temperature and humidity of: ", followed by the values of `a` and `b`, and "alarm is off". The loop breaks after each iteration. Below the editor, the console output shows five iterations where the alarm is on, followed by one iteration where the 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 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
10
```

high temperature and humidity of: 68 81 % alarm is on
high temperature and humidity of: 91 67 % alarm is on
high temperature and humidity of: 41 98 % alarm is on
high temperature and humidity of: 64 96 % alarm is on
high temperature and humidity of: 55 73 % alarm is on
Normal temperature and humidity of: 11 32 % alarm is off

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