

VSB Engineering College, Karur-639111

Department of Electronics and Communication Engineering

IOT Assignment

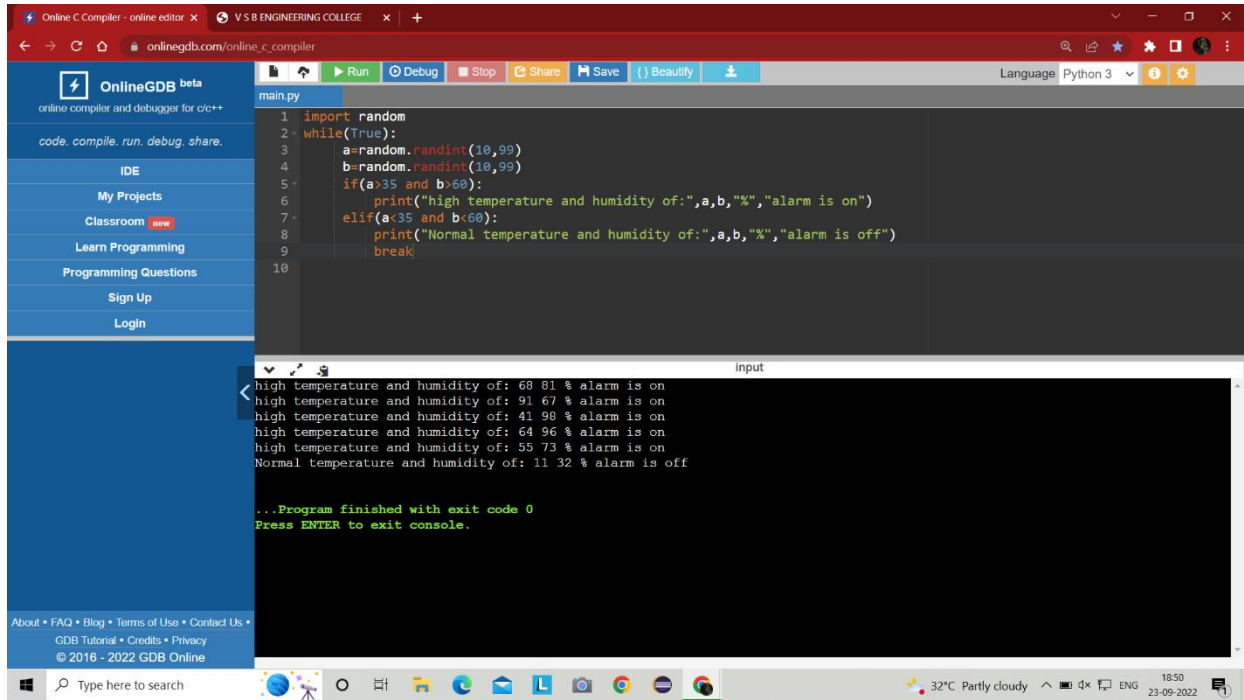
Topic : Assignment on temperature and humidity sensing and alarm automation using python

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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 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 displays the OnlineGDB web interface. The top navigation bar includes links for 'Run', 'Debug', 'Stop', 'Share', 'Save', and 'Beautify'. The left sidebar contains a menu with options like 'IDE', 'My Projects', 'Classroom', 'Learn Programming', 'Programming Questions', 'Sign Up', and 'Login'. The main editor area shows a Python script named 'main.py' with the following code:

```
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
```

The output window at the bottom shows the execution results:

```
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.
```

The bottom status bar indicates the system temperature as 32°C, weather as 'Partly cloudy', and the date and time as 18:50 on 23-09-2022.