

IBM ASSIGNMENT-2

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

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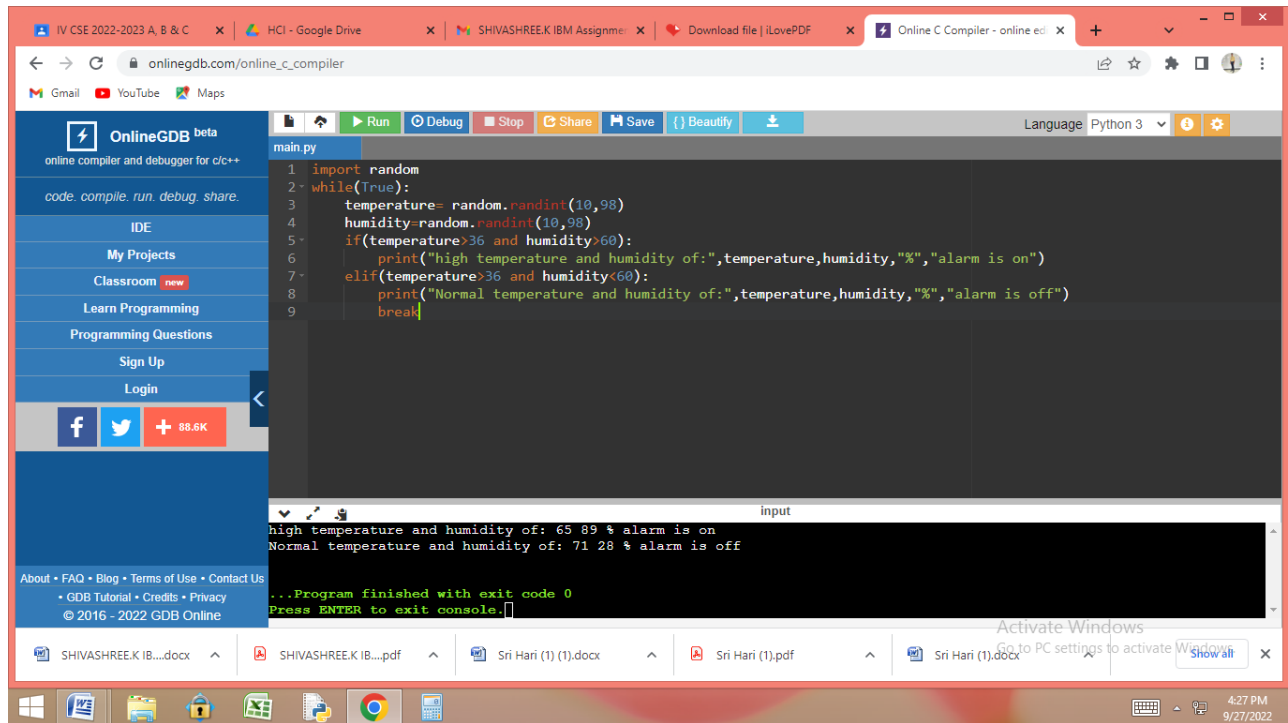
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SOURCE CODE:

```
import random
while(True):
    temperature=random.randint(10,98)
    humidity=random.randint(10,98)
    if(temperature>36 and humidity>60):
        print("high temperature and humidity of:",temperature,humidity,"%","alarm is on")
    elif(temperature<36 and humidity<60):
        print("Normal temperature and humidity of:",temperature,humidity,"%","alarm is off")
    break
```

OUTPUT:



The screenshot displays the OnlineGDB web interface. The browser's address bar shows the URL `onlinegdb.com/online_c_compiler`. The interface includes a sidebar on the left with navigation links such as "IDE", "My Projects", "Classroom", "Learn Programming", "Programming Questions", "Sign Up", and "Login". The main area features a code editor with a Python script named `main.py`. The script uses the `random` module to generate random temperature and humidity values and prints them with corresponding alarm status messages. Below the code editor, the "input" section shows the program's output: "high temperature and humidity of: 65 89 % alarm is on" and "Normal temperature and humidity of: 71 28 % alarm is off". The bottom status bar indicates the program finished with exit code 0. The Windows taskbar at the bottom shows the date and time as 4:27 PM on 9/27/2022.

```
1 import random
2 while(True):
3     temperature= random.randint(10,98)
4     humidity=random.randint(10,98)
5     if(temperature>36 and humidity>60):
6         print("high temperature and humidity of:",temperature,humidity,"%","alarm is on")
7     elif(temperature>36 and humidity<60):
8         print("Normal temperature and humidity of:",temperature,humidity,"%","alarm is off")
9     break
```

high temperature and humidity of: 65 89 % alarm is on
Normal temperature and humidity of: 71 28 % alarm is off

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

