

Department of Electronics and Communication Engineering

IOT Assignment

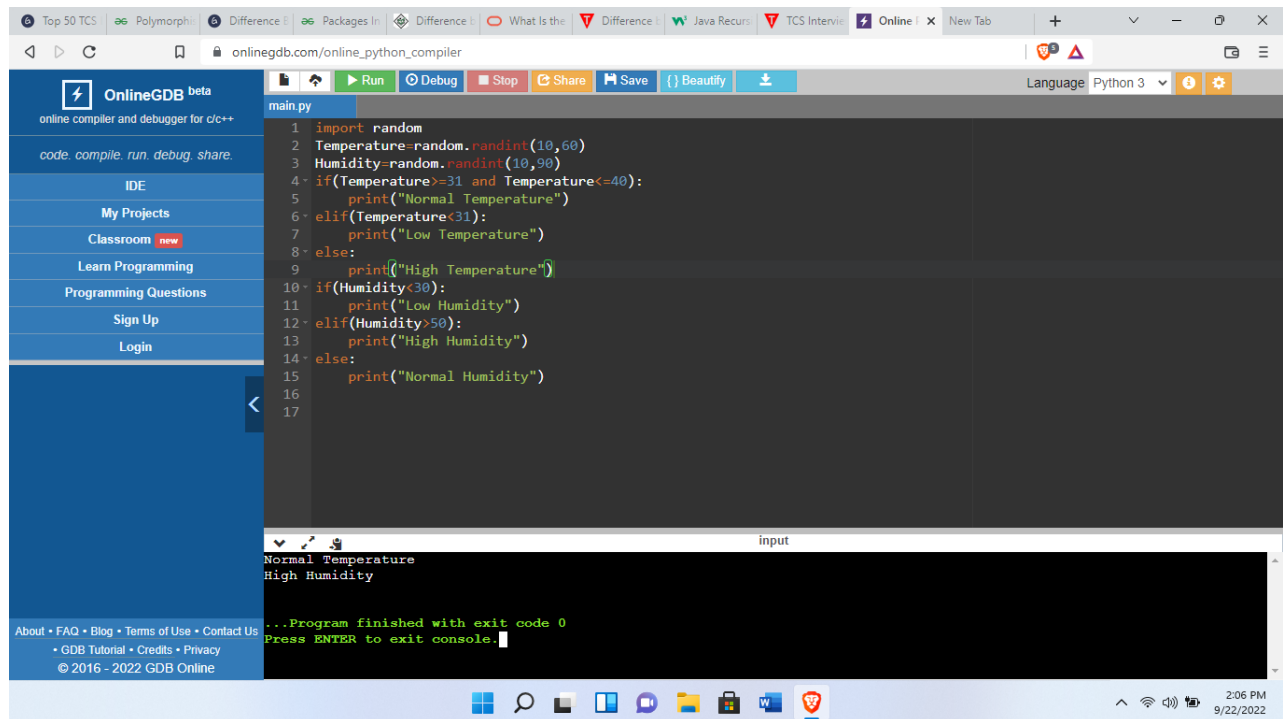
Topic : Assignment on temperature and humidity sensing and alarm automation using python

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Code:

```
import random
Temperature=random.randint(10,60)
Humidity=random.randint(10,90)
if(Temperature>=31 and Temperature<=40):
    print("Normal Temperature")
elif(Temperature<31):
    print("Low Temperature")
else:
    print("High Temperature")
if(Humidity<30):
    print("Low Humidity")
elif(Humidity>50):
    print("High Humidity")
else:
    print("Normal Humidity")
```

OUTPUT:



The screenshot displays the OnlineGDB web interface. The browser's address bar shows the URL `onlinegdb.com/online_python_compiler`. The interface includes a sidebar on the left with navigation links: **OnlineGDB beta**, `code. compile. run. debug. share.`, **IDE**, **My Projects**, **Classroom** (marked as new), **Learn Programming**, **Programming Questions**, **Sign Up**, and **Login**. At the bottom of the sidebar, there are links for **About**, **FAQ**, **Blog**, **Terms of Use**, **Contact Us**, **GDB Tutorial**, **Credits**, and **Privacy**, along with the copyright notice **© 2016 - 2022 GDB Online**.

The main editor area shows a file named `main.py` with the following Python code:

```
1 import random
2 Temperature=random.randint(10,60)
3 Humidity=random.randint(10,90)
4 if(Temperature>=31 and Temperature<=40):
5     print("Normal Temperature")
6 elif(Temperature<31):
7     print("Low Temperature")
8 else:
9     print("High Temperature")
10 if(Humidity<30):
11     print("Low Humidity")
12 elif(Humidity>50):
13     print("High Humidity")
14 else:
15     print("Normal Humidity")
16
17
```

Below the code editor, the **input** section shows the program's output:

```
Normal Temperature
High Humidity
```

The **output** section at the bottom indicates that the program finished successfully with exit code 0 and prompts the user to press ENTER to exit the console.

The browser's taskbar at the bottom shows the Windows logo, search icon, and several application icons. The system clock in the bottom right corner displays the time as 2:06 PM on 9/22/2022.