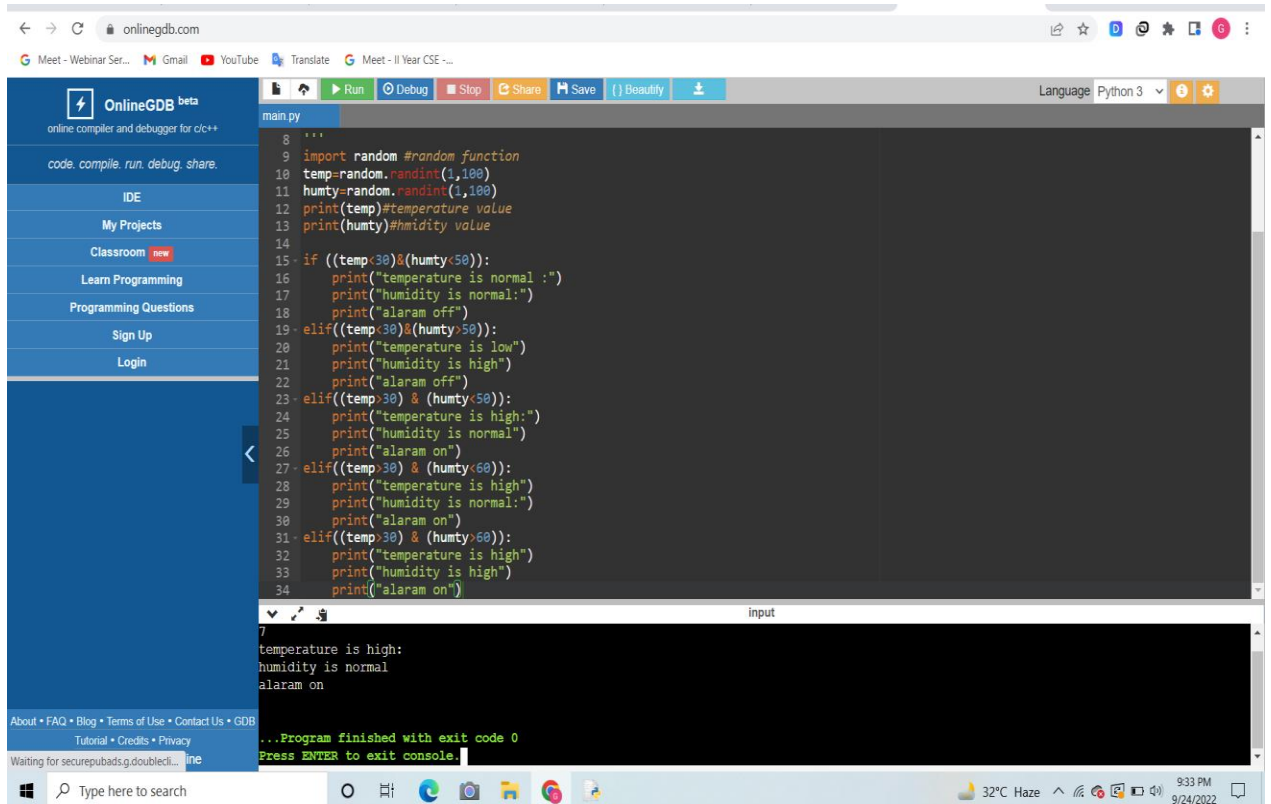


## Assignment – 2

Build a python code, assume you 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.



The screenshot shows the OnlineGDB.com web interface. The left sidebar contains navigation links: IDE, My Projects, Classroom (marked as new), Learn Programming, Programming Questions, Sign Up, and Login. The main editor area displays a Python script named 'main.py'. The script imports the 'random' module and generates random values for 'temp' and 'humty' (sic) between 1 and 100. It then uses a series of if-elif statements to check for different conditions: 1) If both temperature is below 30 and humidity is below 50, it prints 'temperature is normal :', 'humidity is normal:', and 'alarm off'. 2) If temperature is below 30 and humidity is above 50, it prints 'temperature is low', 'humidity is high', and 'alarm off'. 3) If temperature is above 30 and humidity is below 50, it prints 'temperature is high:', 'humidity is normal', and 'alarm on'. 4) If both temperature is above 30 and humidity is above 50, it prints 'temperature is high', 'humidity is normal:', and 'alarm on'. The output console at the bottom shows the results of the program execution: 'temperature is high:', 'humidity is normal', 'alarm on', followed by '...Program finished with exit code 0' and a prompt to 'Press ENTER to exit console.' The browser's address bar shows 'onlinegdb.com' and the system tray at the bottom indicates a temperature of 32°C and the date 9/24/2022.

```
main.py
'''
8  import random #random function
9  temp=random.randint(1,100)
10 humty=random.randint(1,100)
11 print(temp)#temperature value
12 print(humty)#humidity value
13
14
15 if ((temp<30)&(humty<50)):
16     print("temperature is normal :")
17     print("humidity is normal:")
18     print("alarm off")
19 elif((temp<30)&(humty>50)):
20     print("temperature is low")
21     print("humidity is high")
22     print("alarm off")
23 elif((temp>30) & (humty<50)):
24     print("temperature is high:")
25     print("humidity is normal")
26     print("alarm on")
27 elif((temp>30) & (humty>50)):
28     print("temperature is high")
29     print("humidity is normal:")
30     print("alarm on")
31 elif((temp>30) & (humty>60)):
32     print("temperature is high")
33     print("humidity is high")
34     print("alarm on")
'''

input
7
temperature is high:
humidity is normal
alarm on

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