

IOT ASSIGNMENT 2

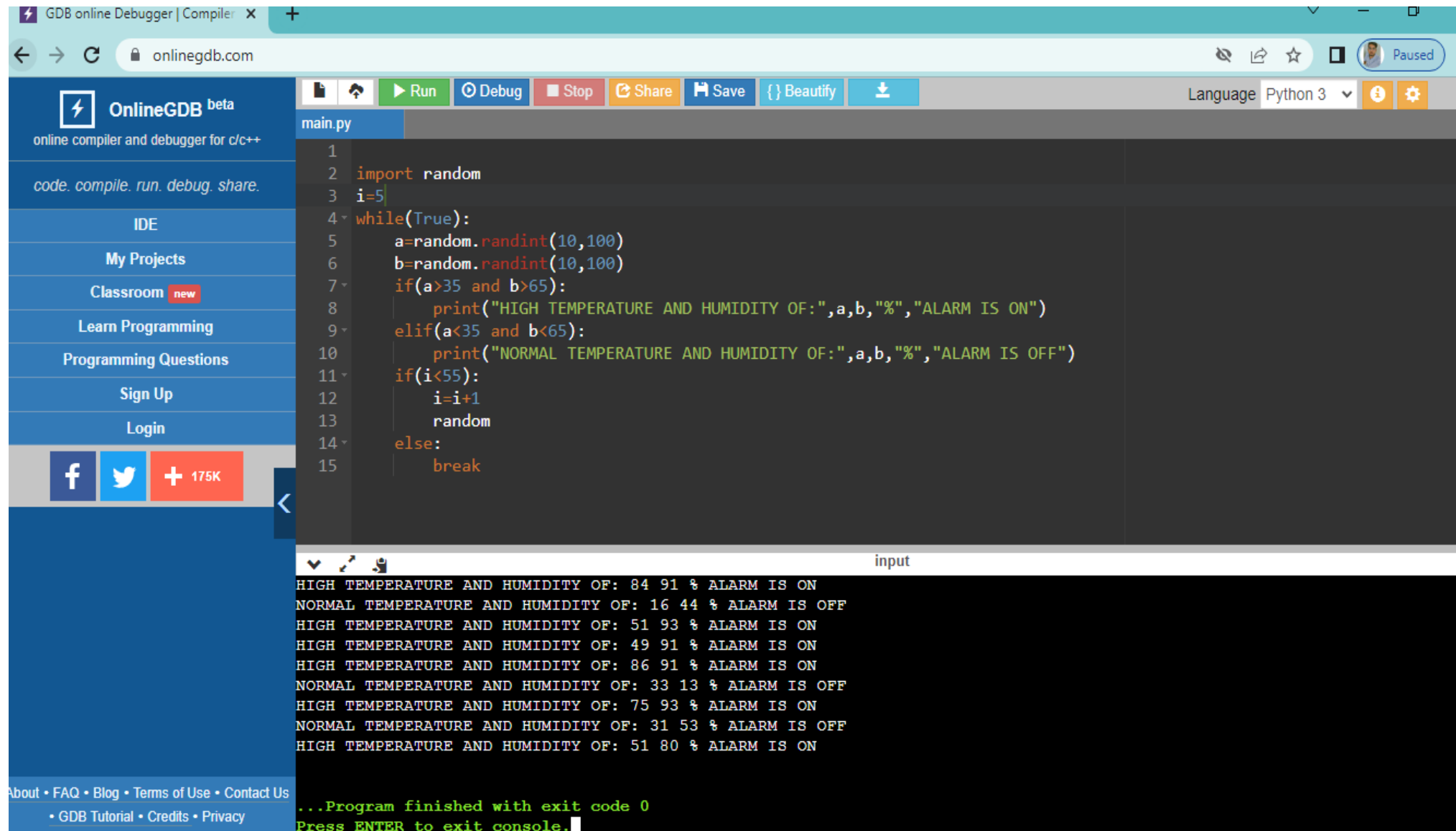
TOPIC: *Assignment on temperature and humidity sensing and alarm automation using python*

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CODE:

```
import random  
i=5  
while(True):  
a=random.randint(10,100)  
b=random.randint(10,100)  
if(a>35 and b<65):  
    print("HIGH TEMPERATURE AND HUMIDITY OF:",a,b,"%","ALARM IS ON")  
elif(a<35 and b>65):  
    print("NORMAL TEMPERATURE AND HUMIDITY OF:",a,b,"%","ALARM IS OFF")  
if(i<55):  
    i=i+1  
    random  
else:  
    break
```

OUTPUT:-



The screenshot displays the OnlineGDB web interface. The top navigation bar includes the OnlineGDB logo, a list of menu items (IDE, My Projects, Classroom, Learn Programming, Programming Questions, Sign Up, Login), and social media links. The main editor area shows a Python file named `main.py` with the following code:

```
1
2 import random
3 i=5
4 while(True):
5     a=random.randint(10,100)
6     b=random.randint(10,100)
7     if(a>35 and b>65):
8         print("HIGH TEMPERATURE AND HUMIDITY OF:",a,b,"%","ALARM IS ON")
9     elif(a<35 and b<65):
10        print("NORMAL TEMPERATURE AND HUMIDITY OF:",a,b,"%","ALARM IS OFF")
11    if(i<55):
12        i=i+1
13        random
14    else:
15        break
```

The output console at the bottom shows the program's execution results:

```
HIGH TEMPERATURE AND HUMIDITY OF: 84 91 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 16 44 % ALARM IS OFF
HIGH TEMPERATURE AND HUMIDITY OF: 51 93 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 49 91 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 86 91 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 33 13 % ALARM IS OFF
HIGH TEMPERATURE AND HUMIDITY OF: 75 93 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 31 53 % ALARM IS OFF
HIGH TEMPERATURE AND HUMIDITY OF: 51 80 % ALARM IS ON
...Program finished with exit code 0
Press ENTER to exit console.
```