

IOT ASSIGNMENT 2

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

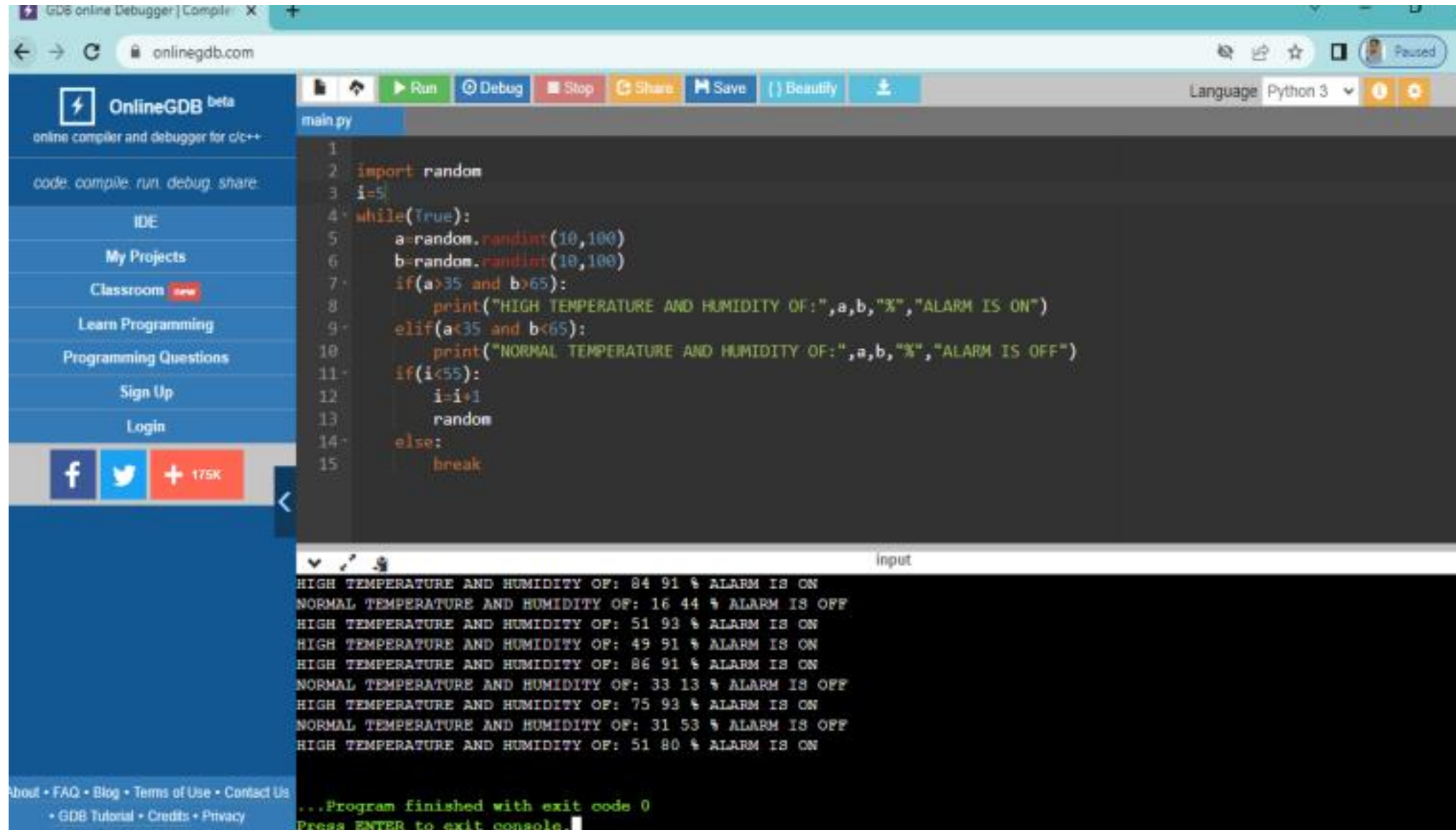
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CODE:

```
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 shows the OnlineGDB web interface. The top navigation bar includes links for 'code', 'compile', 'run', 'debug', and 'share'. The left sidebar contains links for 'IDE', 'My Projects', 'Classroom', 'Learn Programming', 'Programming Questions', 'Sign Up', and 'Login'. The main editor area displays a Python script 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 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.
```