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Title	<i>Gas Leakage Monitoring and Alerting System</i>
Topic	Assignment on temperature and humidity sensing and alarm automation using python

Assignment on temperature and humidity sensing and alarm automation using python

Code:

```
import random

i=1

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<10):

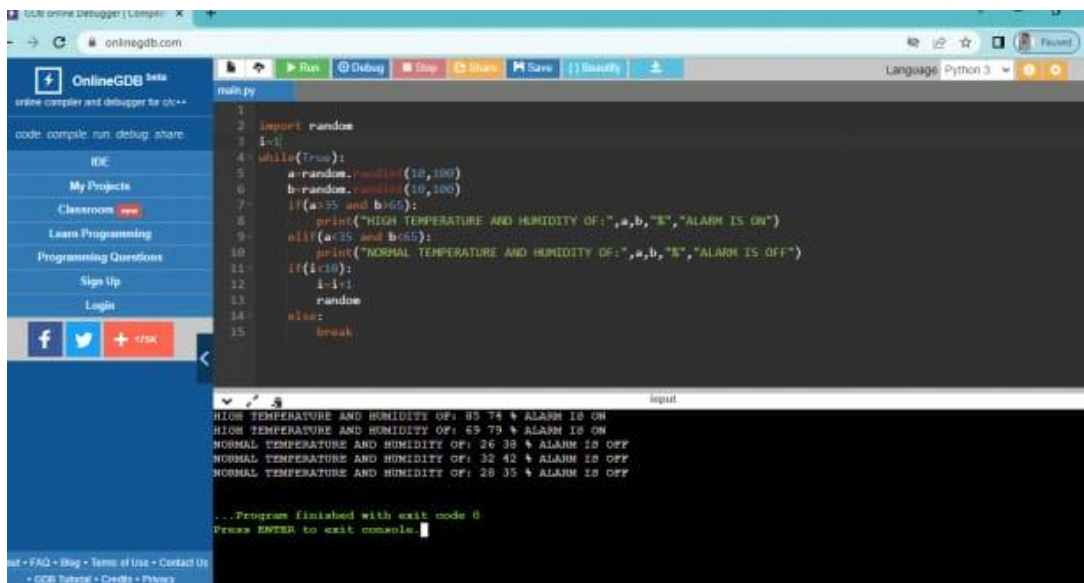
    i=i+1

    random

else:

    break
```

Output:

The image is a screenshot of the OnlineGDB web interface. The top navigation bar includes links for 'code', 'compile', 'run', 'debug', and 'share'. The left sidebar contains a menu with 'IDE', 'My Projects', 'Classroom', 'Learn Programming', 'Programming Questions', 'Sign Up', and 'Login'. The main editor area shows a Python script named 'main.py' with 15 lines of code. The code implements a loop that generates random temperature and humidity values and prints an alarm status based on specific conditions. The output window at the bottom shows the results of five iterations: two 'ALARM IS ON' messages and three 'ALARM IS OFF' messages. The program concludes with a message indicating it finished with exit code 0.

```
1 import random
2 i=1
3
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
12    if(i<10):
13        i=i+1
14        random
15    else:
16        break
```

Output:

```
HIGH TEMPERATURE AND HUMIDITY OF: 85 74 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 65 79 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 26 38 % ALARM IS OFF
NORMAL TEMPERATURE AND HUMIDITY OF: 32 42 % ALARM IS OFF
NORMAL TEMPERATURE AND HUMIDITY OF: 28 35 % ALARM IS OFF

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