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Title	Gas Leakage Monitoring and Alerting System using IOT
Topic	Assignment on temperature and humidity sensing and alarm automation using python
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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):

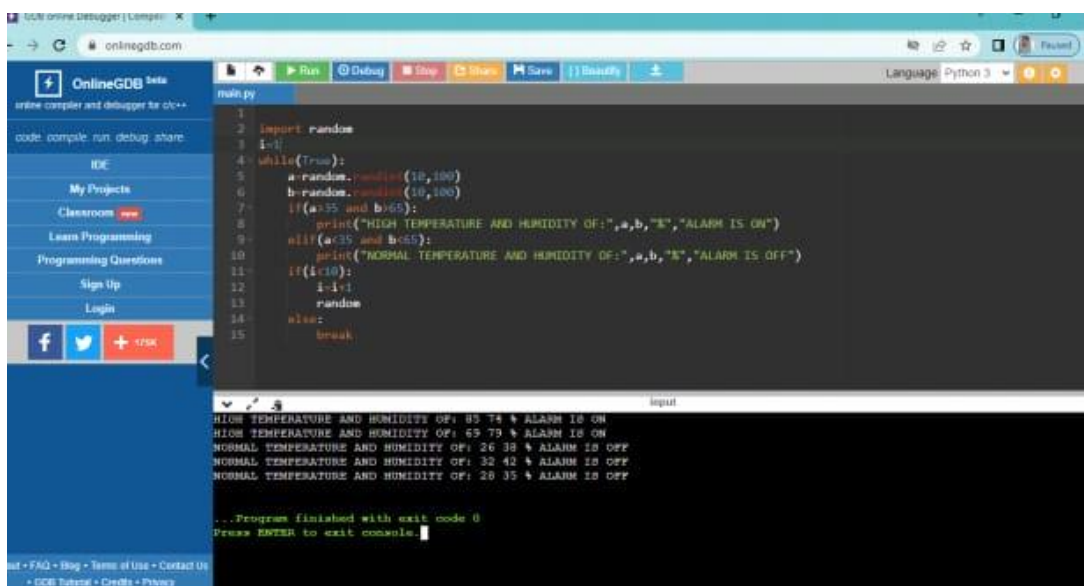
    i=i+1

    random

else:

    break
```

Output:

The screenshot shows the OnlineGDB web interface. The code editor on the left contains the Python script. The output window on the right shows the results of the program's execution. The output consists of five lines of text, each representing a random iteration of the program. The first two lines show 'HIGH TEMPERATURE AND HUMIDITY' with values (85, 74) and (65, 79), both followed by 'ALARM IS ON'. The next three lines show 'NORMAL TEMPERATURE AND HUMIDITY' with values (26, 38), (32, 42), and (28, 35), all followed by 'ALARM IS OFF'. The program ends with a message indicating it finished with exit code 0.

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

```
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.
```