

Name	Saranyadevi R
Reg.No	210619106047
Departament	ECE
Title	Gas Leakage Monitoring and Alerting System
Topic	Assignment on temperature and humidity sensing and alarm automation using python
Mentor	W.Nancy

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):

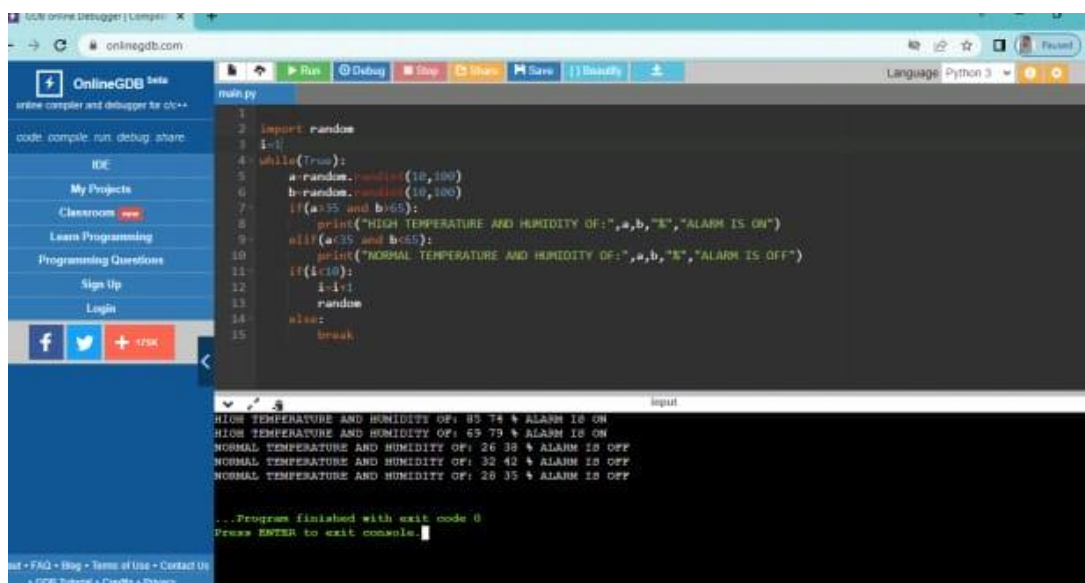
    i=i+1

    random

else:

    break
```

Output:

A screenshot of the OnlineGDB web interface. The code editor shows a Python script with a while loop that generates random temperature and humidity values. The output console shows five iterations of the program, alternating between 'ALARM IS ON' and 'ALARM IS OFF' based on the generated values. The program finishes with an exit code of 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.
```