

Name	VINOTHINI D
Register number	611819106062
Department	ECE
Title	Smart waste management for metropolitan cities
Topic	Assignment on temperature and humidity sensing and alarm automation using python
Mentor	A.Jothi

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):

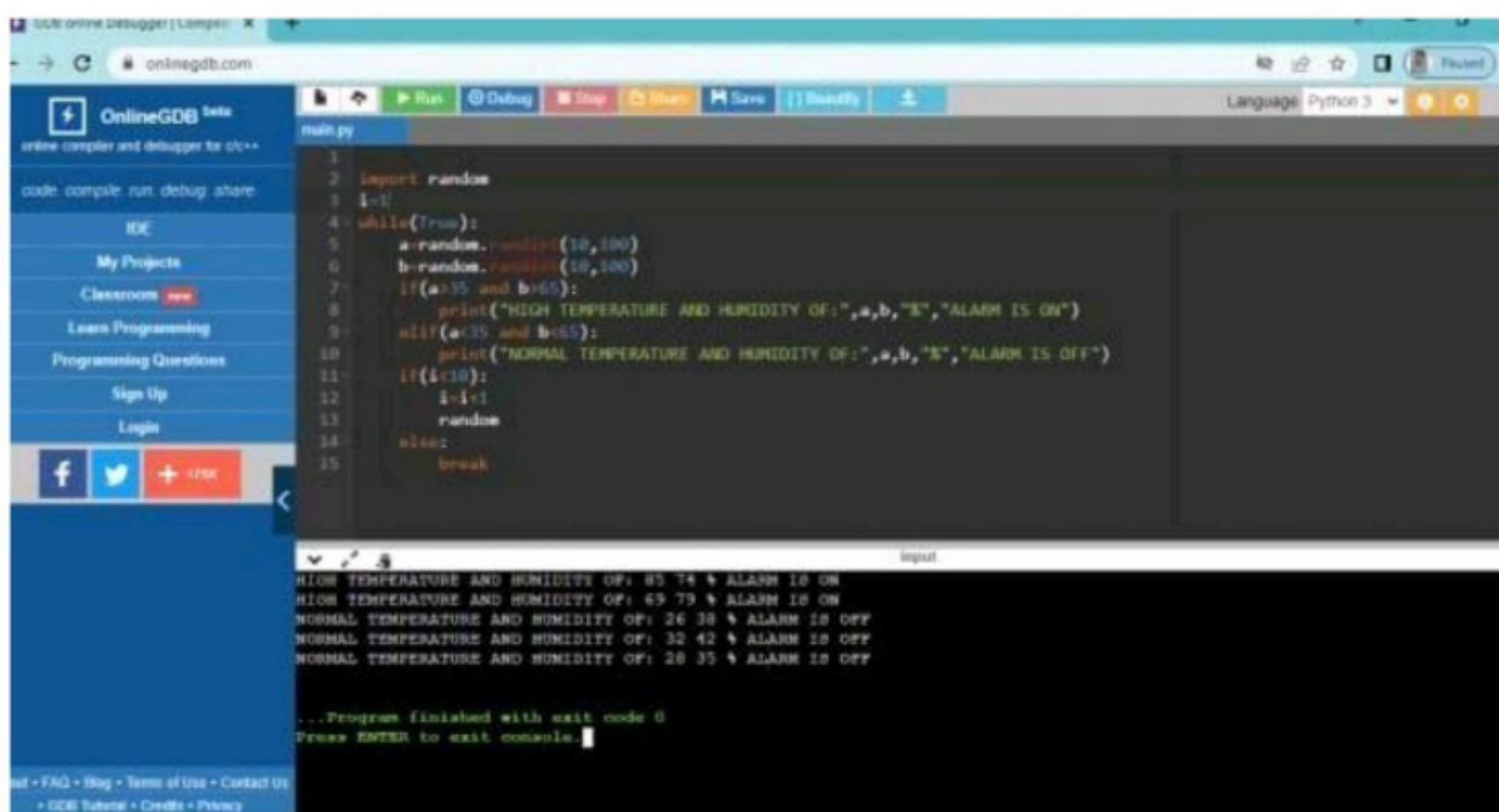
    i=i+1

    random

else:

    break
```

Output:



The screenshot shows a web-based Python IDE interface. The code editor on the right contains the following Python code:

```
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
```

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

```
HIGH TEMPERATURE AND HUMIDITY OF: 85 74 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 69 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.
```