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DEPT	ECE
TITLE	SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY
ASSIGNMENT TOPIC	ASSUME YOU GET TEMPERATURE AND HUMIDITY VALUES WRITE A CONDITION TO DETECT ALARM IN CASE OF HIGH TEMPERATURE
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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):

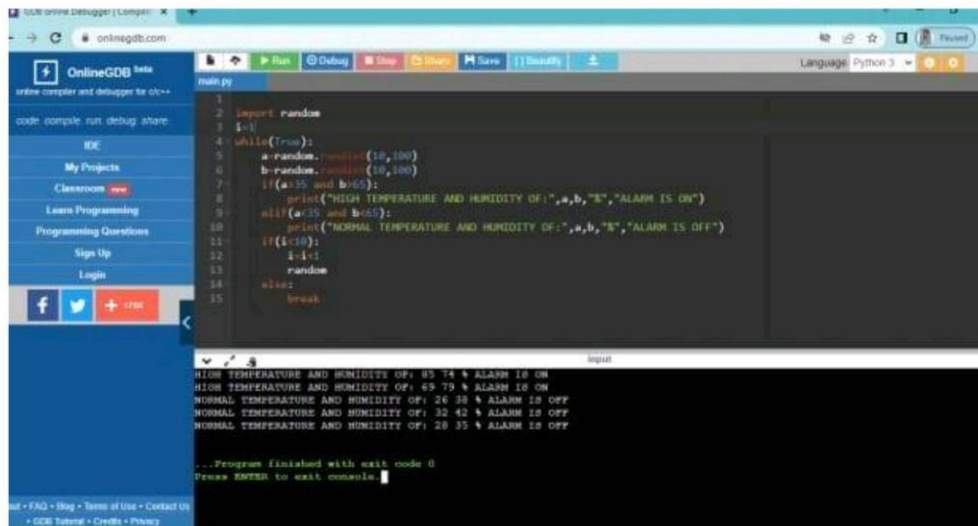
        i=i+1

        random

    else:

        break
```

Output:



The screenshot shows the OnlineGDB web interface. The code editor contains the Python script from the previous block. The output window displays the results of the program's execution. The program generates random values for temperature (a) and humidity (b) and prints the status of the alarm based on these values. The output shows four iterations where the alarm is either ON or OFF.

```
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
```

Output:

```
HIGH TEMPERATURE AND HUMIDITY OF: 85 74 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 49 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
```