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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
MENTOR	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):

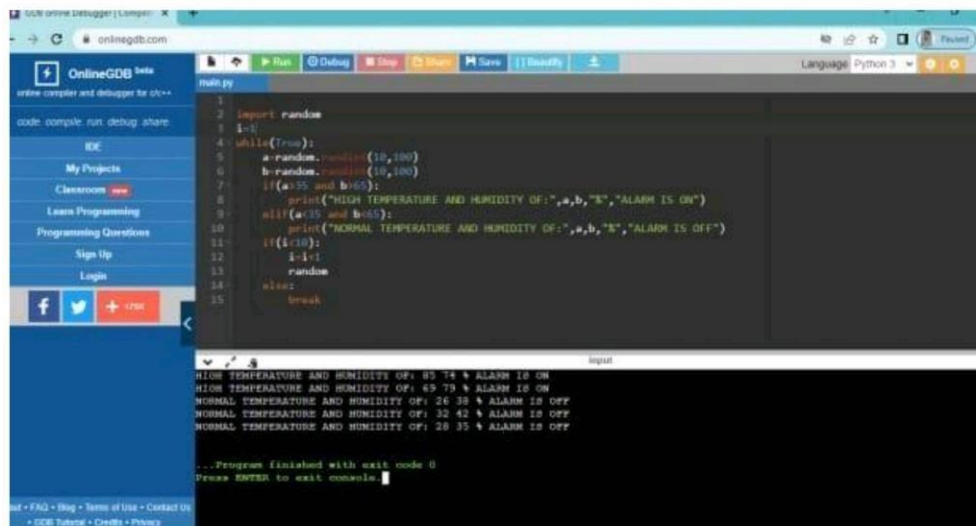
    i=i+1

    random

else:

    break
```

Output:



The screenshot shows the OnlineGDB interface with a Python script and its execution output. The script generates random temperature and humidity values and prints an alarm status based on specific thresholds. The output shows four iterations of the program, alternating between 'ALARM IS ON' and 'ALARM IS OFF' based on the generated values.

```
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 14 % 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.
```