

<b>Name</b>	<b>M.Muralidharan</b>
<b>Reg.No</b>	<b>611819106028</b>
<b>Departament</b>	<b>ECE</b>
<b>Title</b>	Smart Farmer-IOT enabled Smart Farming
<b>Topic</b>	<b>Assignment on temperature and humidity sensing and alarm automation using python</b>
<b>Mentor</b>	<b>L.Prakasam</b>

# 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):

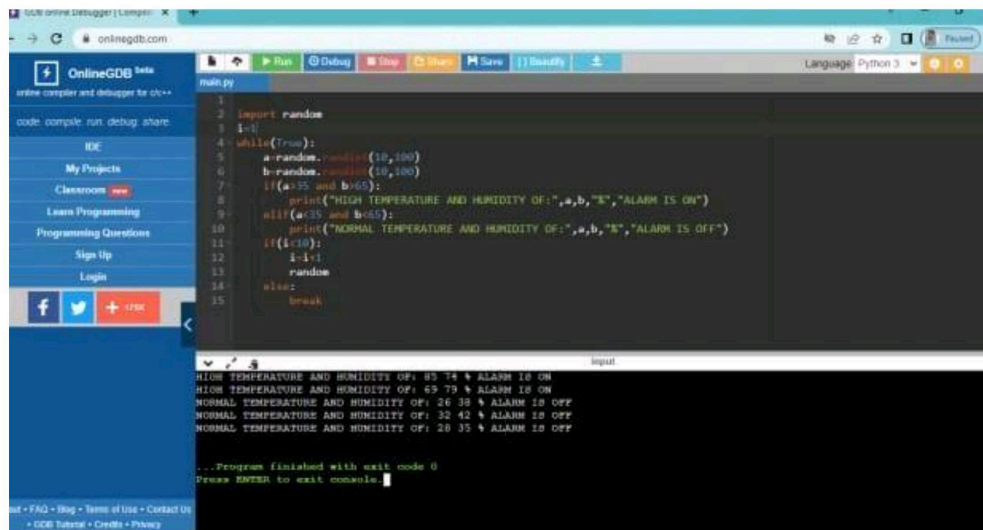
    i=i+1

    random

else:

    break
```

## Output:



The screenshot shows the OnlineGDB interface with a Python script and its output. The script generates random temperature (a) and humidity (b) values and checks if an alarm should be on or off based on specific thresholds. The output shows four iterations of the program, with the first two triggering an alarm and the next two turning it 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 75 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 65 75 % 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
```