

Name	V.Naveenkumar
Reg.No	611819106032
Departament	ECE
Title	Smart Farmer-IOT enabled Smart Farming
Topic	Assignment on temperature and humidity sensing and alarm automation using python
Mentor	L.Prakasam

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):

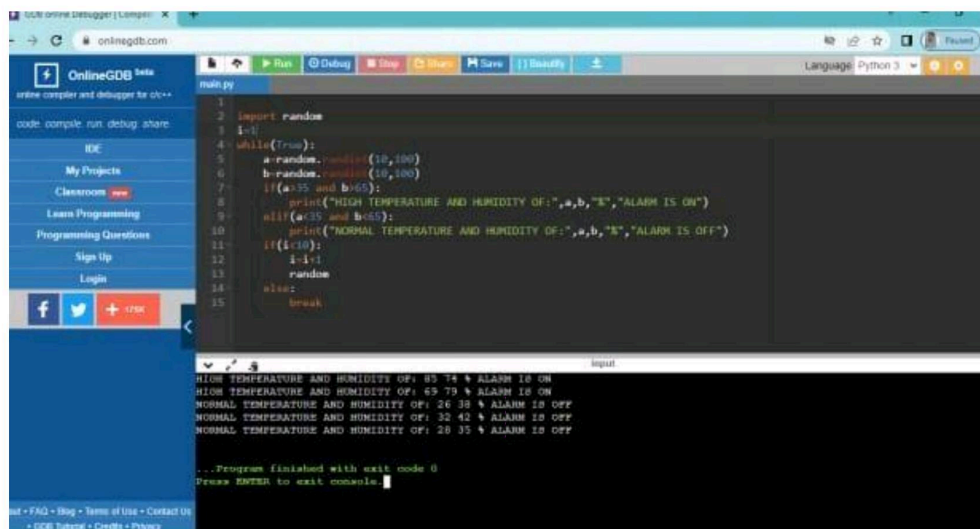
    i=i+1

    random

else:

    break
```

Output:

A screenshot of the OnlineGDB web interface. The code editor shows a Python script with 15 lines. The output console at the bottom displays the results of the program's execution, showing four iterations of random temperature and humidity values and the corresponding alarm status. The program ends with an exit code of 0.

```
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
15
```

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
```