

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):

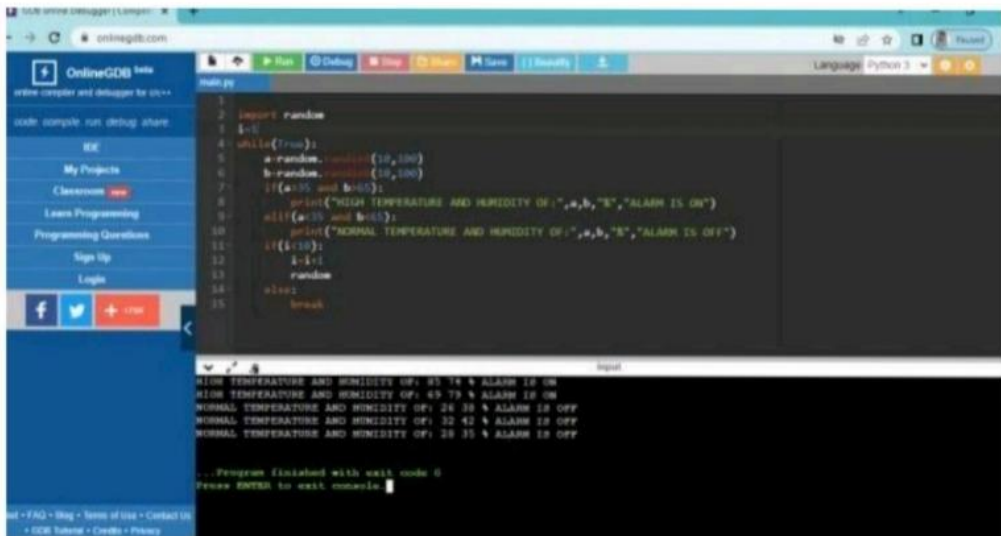
    i=i+1

    random

else:

    break
```

Output:

A screenshot of an online Python IDE interface. The top part shows the code editor with the same Python code as in the previous block. The bottom part shows the output console with the following text:

```
HIGH TEMPERATURE AND HUMIDITY OF: 91 74 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 65 79 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 24 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
```