

## **IOT ASSIGNMENT 2**

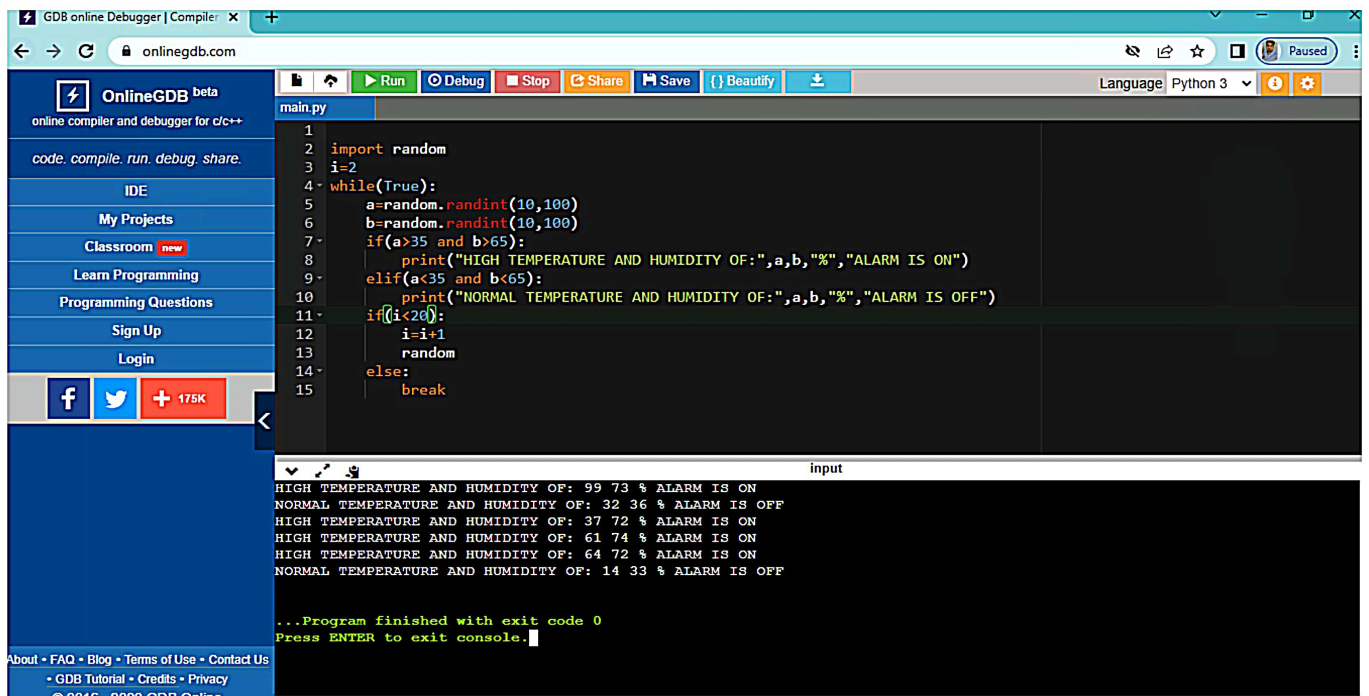
**TOPIC:** *Assignment on temperature and humidity sensing and alarm automation using python*

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**CODE:**

```
import random
i=2
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<20):
        i=i+1
        random
    else:
        break
```

OUTPUT:-



The screenshot displays the OnlineGDB web interface. The top navigation bar includes the OnlineGDB logo, navigation links (IDE, My Projects, Classroom, Learn Programming, Programming Questions, Sign Up, Login), and social media icons. The main editor area shows a Python script named 'main.py' with the following code:

```
1
2 import random
3 i=2
4 while(True):
5     a=random.randint(10,100)
6     b=random.randint(10,100)
7     if(a>35 and b>65):
8         print("HIGH TEMPERATURE AND HUMIDITY OF:",a,b,"%","ALARM IS ON")
9     elif(a<35 and b<65):
10        print("NORMAL TEMPERATURE AND HUMIDITY OF:",a,b,"%","ALARM IS OFF")
11    if(i<20):
12        i=i+1
13        random
14    else:
15        break
```

The output console at the bottom shows the program's execution results:

```
input
HIGH TEMPERATURE AND HUMIDITY OF: 99 73 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 32 36 % ALARM IS OFF
HIGH TEMPERATURE AND HUMIDITY OF: 37 72 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 61 74 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 64 72 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 14 33 % ALARM IS OFF
...Program finished with exit code 0
Press ENTER to exit console.
```

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