

IOT ASSIGNMENT 2

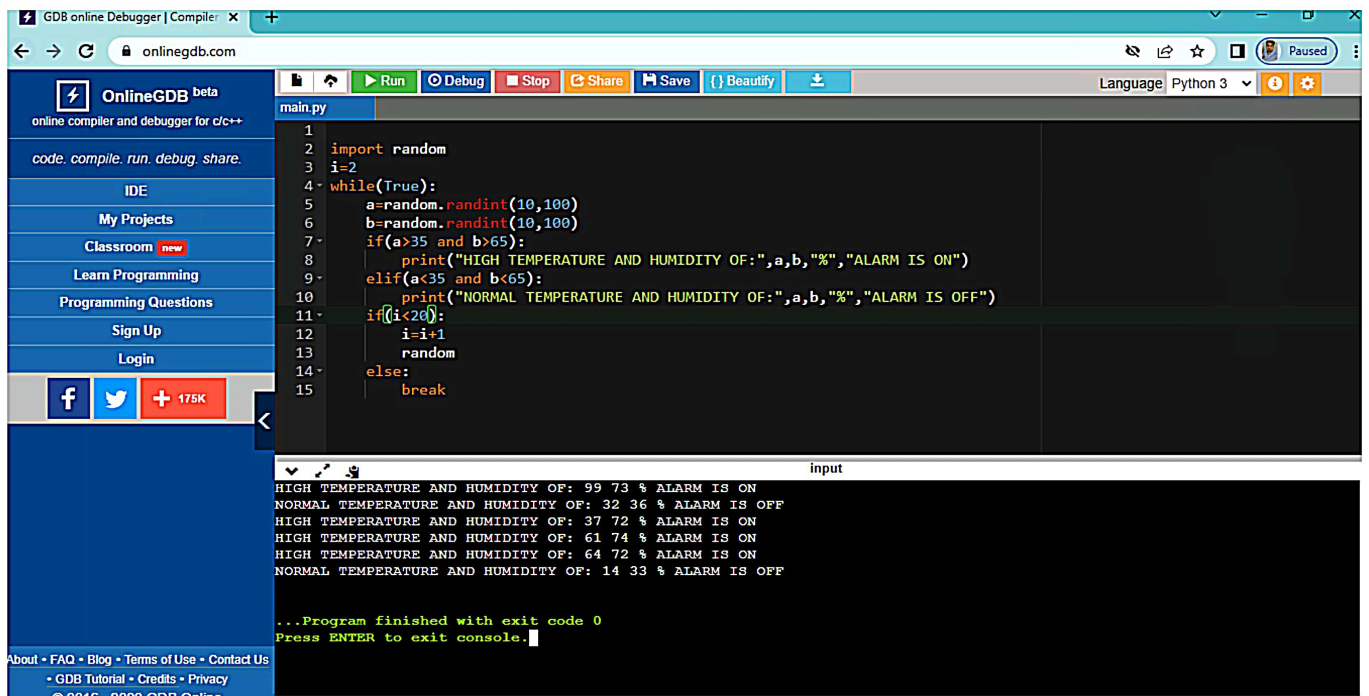
TOPIC: *Assignment on temperature and humidity sensing and alarm automation using python*

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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 links for 'code', 'compile', 'run', 'debug', and 'share'. The left sidebar contains a menu with options like 'IDE', 'My Projects', 'Classroom', 'Learn Programming', 'Programming Questions', 'Sign Up', and 'Login'. 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 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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