

# IOT ASSIGNMENT 2

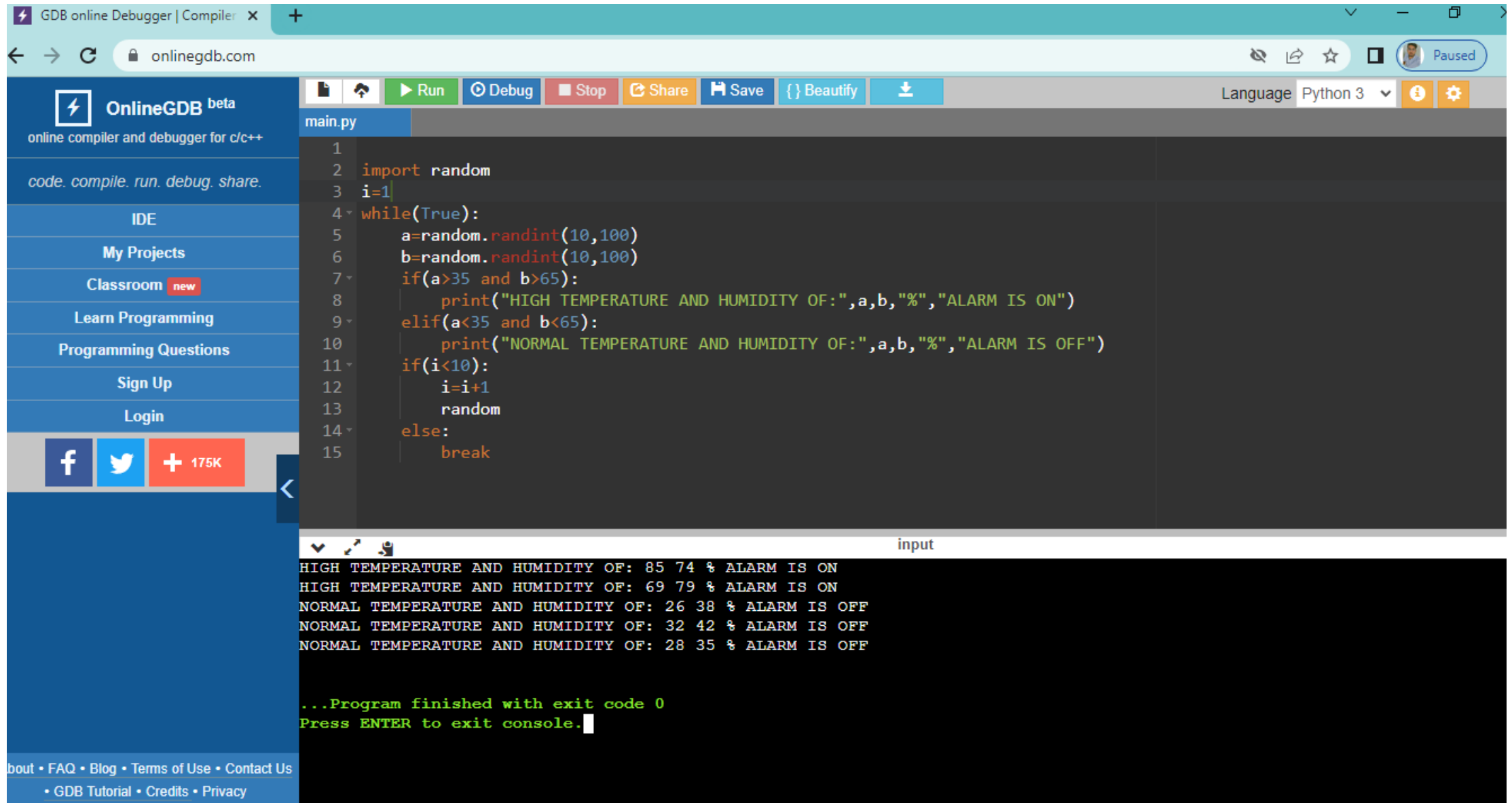
**TOPIC:** *Assignment on temperature and humidity sensing and alarm automation using python*

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**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 displays the OnlineGDB web interface. The top navigation bar includes the OnlineGDB logo, a description 'online compiler and debugger for c/c++', and a tagline 'code. compile. run. debug. share.'. A sidebar on the left contains links to IDE, My Projects, Classroom (marked 'new'), Learn Programming, Programming Questions, Sign Up, and Login. Below these are social media icons for Facebook and Twitter, and a '+ 175K' badge. The main area shows a Python file named 'main.py' with the following code:

```
1
2 import random
3 i=1
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<10):
12        i=i+1
13        random
14    else:
15        break
```

The output console at the bottom shows the execution results:

```
HIGH TEMPERATURE AND HUMIDITY OF: 85 74 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 69 79 % 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.
```

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