

IOT ASSIGNMENT 2

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

CODE:

```
import random
i=5
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<55):
```

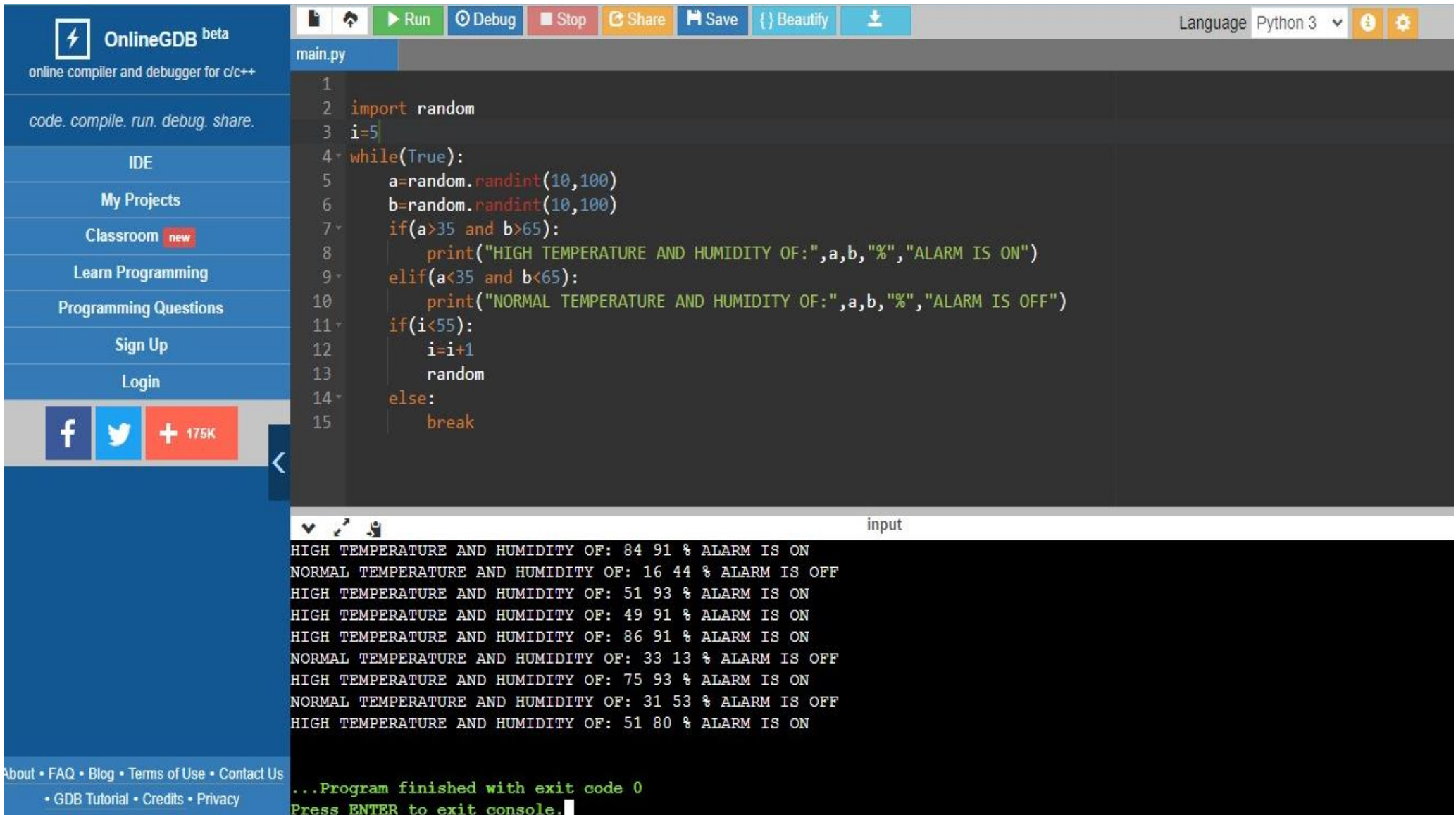
```
    i=i+1
```

```
    random
```

```
else:
```

```
    break
```

OUTPUT:



The screenshot displays the OnlineGDB web interface. On the left is a sidebar with navigation links: 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 red button indicating 175K users. The top of the interface features a toolbar with icons for Run, Debug, Stop, Share, Save, Beautify, and Download, along with a language dropdown set to Python 3. The main editor area shows a file named 'main.py' with the following Python code:

```
1
2 import random
3 i=5
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<55):
12        i=i+1
13        random
14    else:
15        break
```

Below the code editor is a console window labeled 'input' showing the program's output:

```
HIGH TEMPERATURE AND HUMIDITY OF: 84 91 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 16 44 % ALARM IS OFF
HIGH TEMPERATURE AND HUMIDITY OF: 51 93 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 49 91 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 86 91 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 33 13 % ALARM IS OFF
HIGH TEMPERATURE AND HUMIDITY OF: 75 93 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 31 53 % ALARM IS OFF
HIGH TEMPERATURE AND HUMIDITY OF: 51 80 % ALARM IS ON
```

At the bottom of the console, it states: "...Program finished with exit code 0" and "Press ENTER to exit console."

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