

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):
```

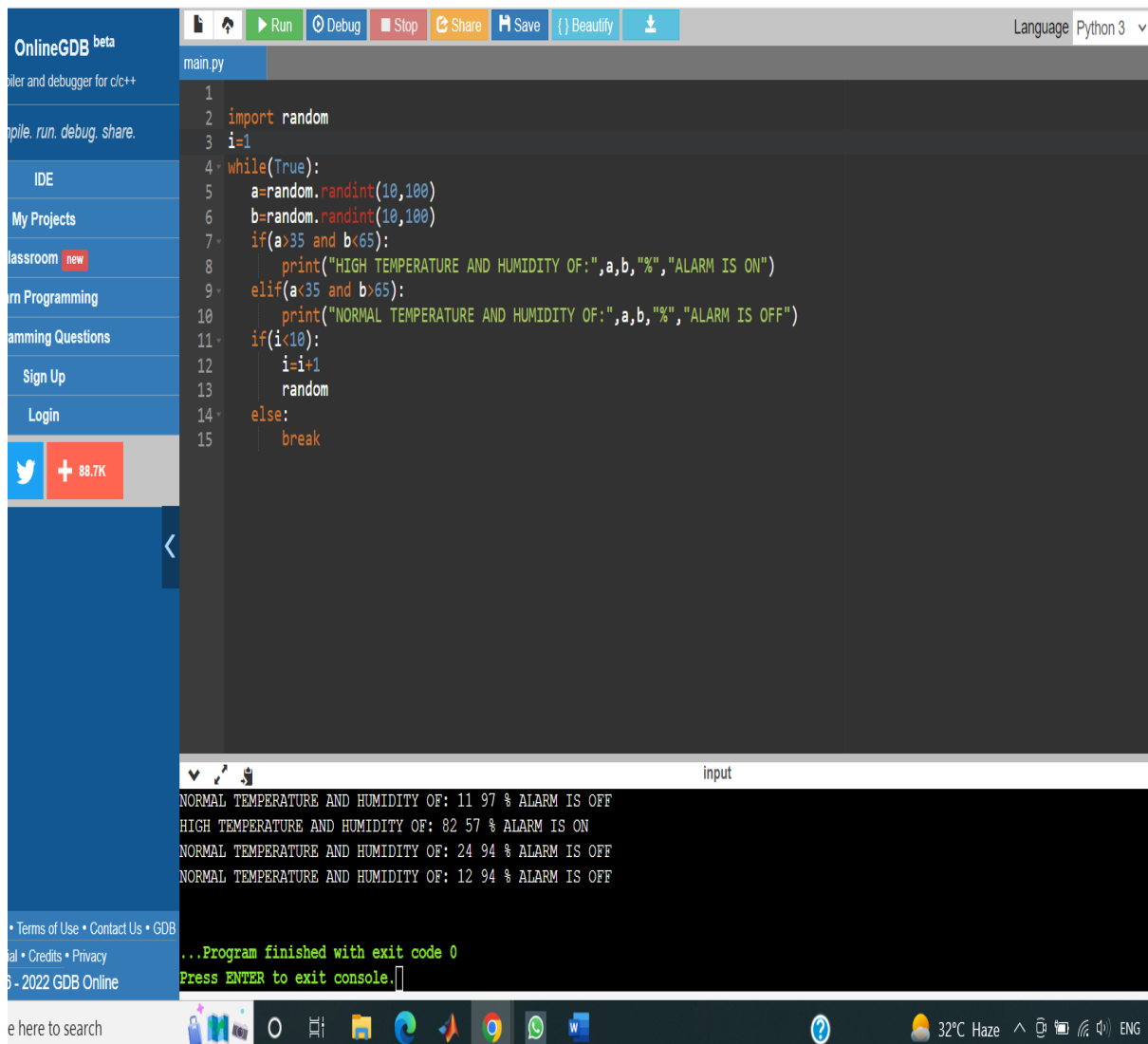
```
        i=i+1
```

```
        random
```

```
    else:
```

```
        break
```

OUTPUT:



The screenshot displays the OnlineGDB web interface. On the left is a sidebar with navigation links: OnlineGDB beta, Compiler and debugger for C/C++, Compile, run, debug, share, IDE, My Projects, Classroom (new), Learn Programming, Programming Questions, Sign Up, and Login. Below these are social media icons for Twitter and a button for 88.7K followers. The main area shows a Python script 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
```

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

```
input
NORMAL TEMPERATURE AND HUMIDITY OF: 11 97 % ALARM IS OFF
HIGH TEMPERATURE AND HUMIDITY OF: 82 57 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 24 94 % ALARM IS OFF
NORMAL TEMPERATURE AND HUMIDITY OF: 12 94 % ALARM IS OFF
...Program finished with exit code 0
Press ENTER to exit console.
```

The bottom of the image shows a Windows taskbar with various application icons and a system tray displaying the date and time as 6:56 - 2022 GDB Online.