

IOT ASSIGNMENT - 2

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

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CODE:

```
import random
```

```
i=3
```

```
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):
```

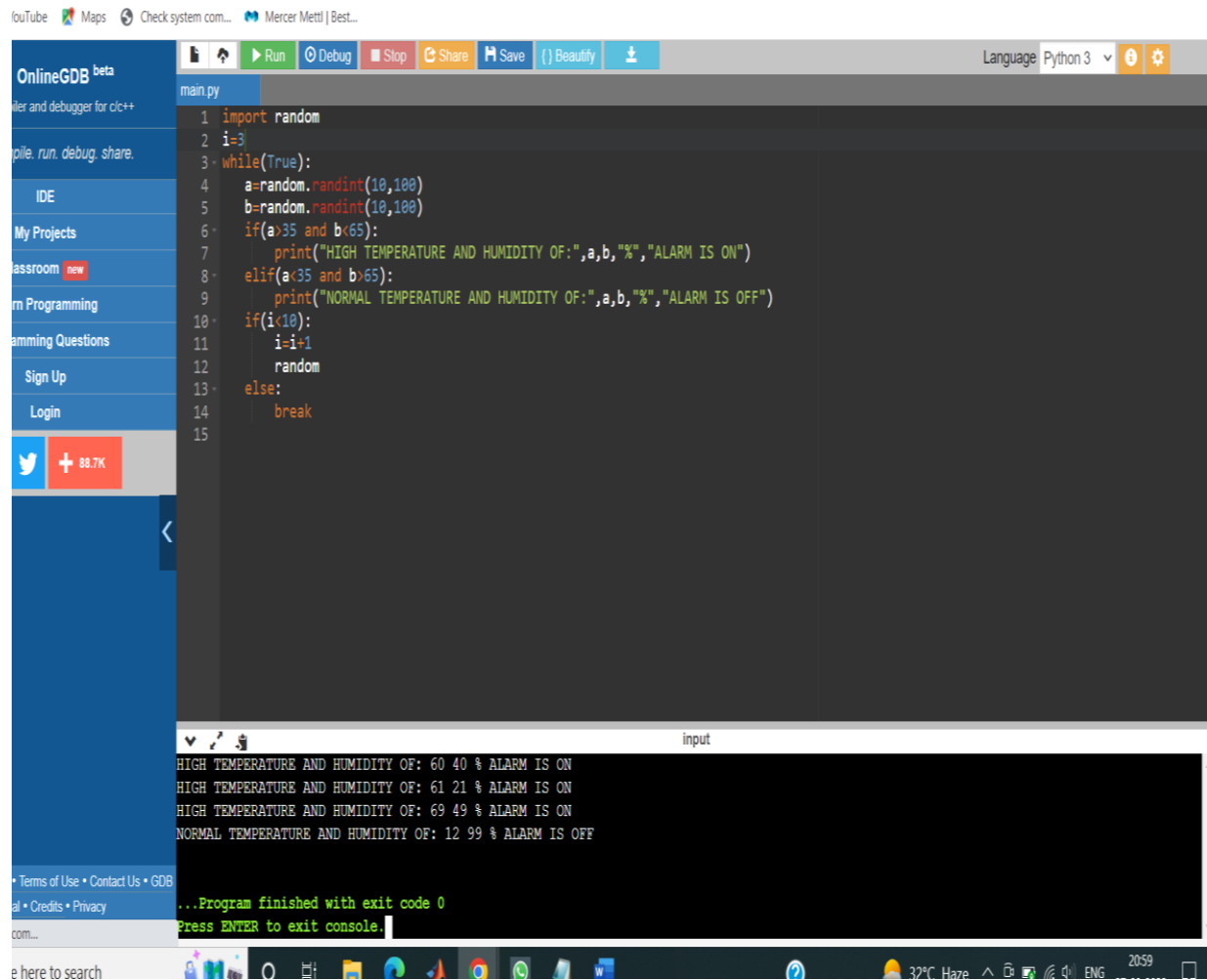
```
        i=i+1
```

```
        random
```

```
    else:
```

```
        break
```

OUTPUT:



The screenshot displays the OnlineGDB beta web interface. On the left is a sidebar with navigation links: 'filter and debugger for c/c++', 'pile. run. debug. share.', 'IDE', 'My Projects', 'classroom' (with a 'new' badge), 'm Programming', 'amming Questions', 'Sign Up', and 'Login'. Below these is a Twitter icon and a '+ 88.7K' badge. The main editor area shows a file named 'main.py' with the following Python code:

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

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

```
HIGH TEMPERATURE AND HUMIDITY OF: 60 40 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 61 21 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 69 49 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 12 99 % ALARM IS OFF
...Program finished with exit code 0
Press ENTER to exit console.
```

The bottom of the interface shows a search bar with the text 'e here to search' and a system tray with icons for a question mark, a weather icon showing '32°C Haze', and a clock showing '20:59'.