

## **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<10):
```

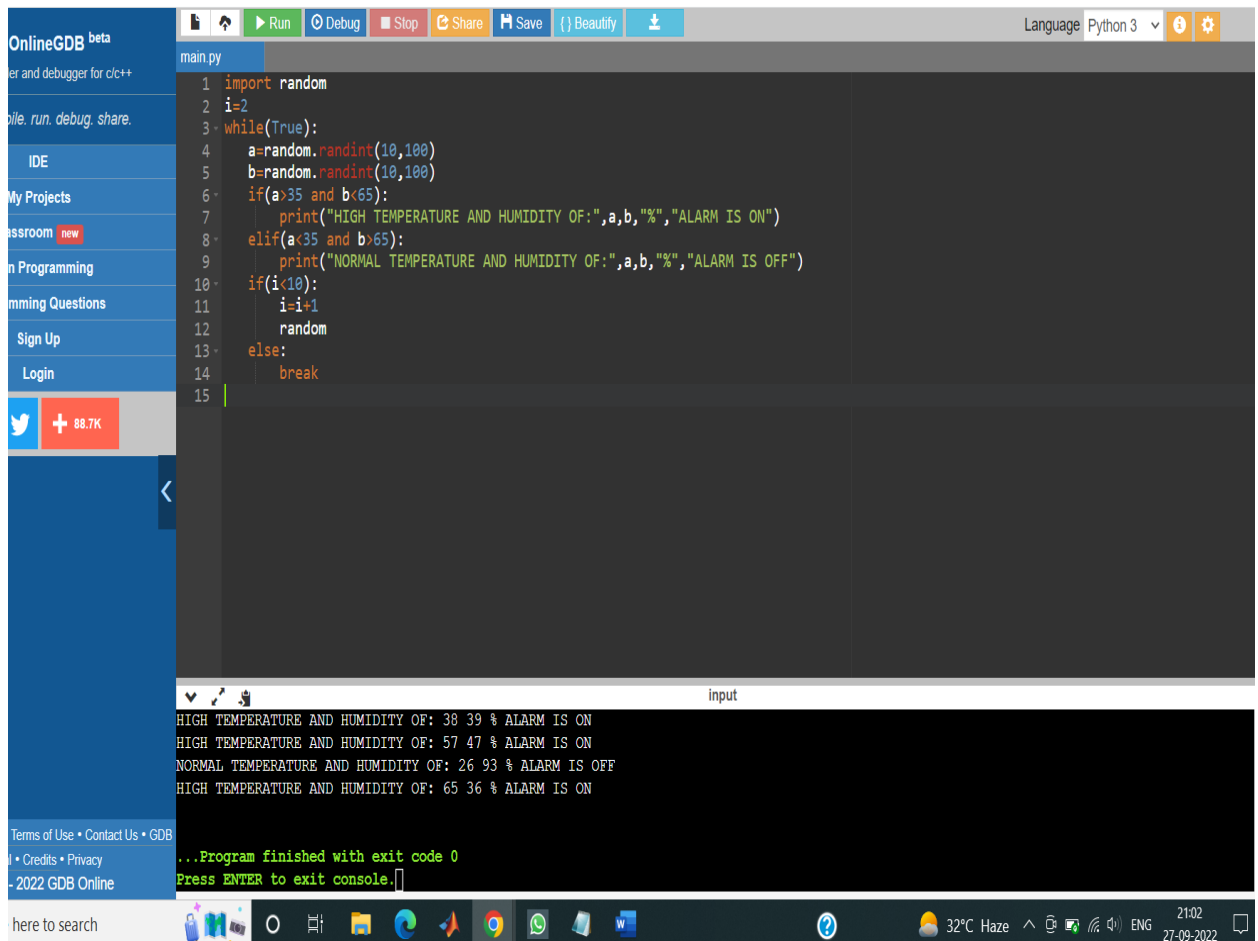
```
        i=i+1
```

```
        random
```

```
    else:
```

```
        break
```

## OUTPUT:



The screenshot displays the OnlineGDB web interface. On the left is a sidebar with navigation links: 'OnlineGDB beta', 'er and debugger for c/c++', 'bile. run. debug. share.', 'IDE', 'My Projects', 'essroom new', 'n Programming', 'mming Questions', 'Sign Up', and 'Login'. Below these are social media icons and a '+ 88.7K' badge. The top toolbar contains buttons for 'Run', 'Debug', 'Stop', 'Share', 'Save', 'Beautify', and a user icon. The language is set to 'Python 3'. The main editor shows a file named 'main.py' with the following Python code:

```
1 import random
2 i=2
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 editor is an 'input' field and an output console. The console shows the program's execution results:

```
HIGH TEMPERATURE AND HUMIDITY OF: 38 39 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 57 47 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 26 93 % ALARM IS OFF
HIGH TEMPERATURE AND HUMIDITY OF: 65 36 % ALARM IS ON
...Program finished with exit code 0
Press ENTER to exit console.
```

The bottom of the image shows a Windows taskbar with various application icons, system status (32°C Haze), and the date/time (21:02, 27-09-2022).