

# IOT ASSIGNMENT 2

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

**Name:** *VIGNESH R*

**CODE:**

```
import random
i=2
while(True):
a=random.randint(10,99)
b=random.randint(10,99)
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<20): i=i+1
    random else:
    break
```

# OUTPUT:-

The screenshot displays the OnlineGDB web interface. The left sidebar contains navigation links: IDE, My Projects, Classroom (new), Learn Programming, Programming Questions, Sign Up, and Login. Below these are social media icons for Facebook, Twitter, and a '+ 175K' button. The main editor area shows a Python file named 'main.py' with the following code:

```
1 import random
2 i=2
3 while(True):
4     a=random.randint(10,99)
5     b=random.randint(10,99)
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<20):
11        i=i+1
12        random
13    else:
14        break
15
```

The output console at the bottom shows the program's execution results:

```
input
HIGH TEMPERATURE AND HUMIDITY OF: 97 62 % ALARM IS ON
HIGH TEMPERATURE AND HUMIDITY OF: 98 15 % ALARM IS ON
NORMAL TEMPERATURE AND HUMIDITY OF: 31 83 % ALARM IS OFF
...Program finished with exit code 0
Press ENTER to exit console.
```

The footer of the interface includes links for About, FAQ, Blog, Terms of Use, and Contact Us, as well as GDB Tutorial, Credits, and Privacy. It also states '© 2016 - 2022 GDB Online'. A Windows watermark is visible in the bottom right corner.