

# IOT ASSIGNMENT 2

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

**Name:** *Arun.A*

**CODE:**

```
import random
    while(True):
        a=random.randint(20,80)
        b=random.randint(20,80)
    if(a>45 and b>75):
        print("HIGH TEMPERATURE AND HUMIDITY OF:",a,b,"%","ALARM IS ON")
    continue
    elif(a<45 and b<75):
        print("NORMAL TEMPERATURE AND HUMIDITY OF:",a,b,"%","ALARM IS OFF")
    break
```

# OUTPUT:-

The screenshot displays the OnlineGDB web interface. The left sidebar contains navigation links: IDE, My Projects, Classroom (marked as new), Learn Programming, Programming Questions, Sign Up, and Login. Below these are social media icons for Facebook and Twitter, and a button indicating 175K users. 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 execution results:

```
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 bottom of the interface includes a footer with links: About, FAQ, Blog, Terms of Use, Contact Us, GDB Tutorial, Credits, Privacy, and a copyright notice for 2016-2022 GDB Online. A file named 'IBM 1.pdf' is visible in the bottom left corner. An 'Activate Windows' watermark is present in the bottom right corner.