

IBM-NALAYATHIRAN

DOMAIN-IOT

ASSIGNMENT 2

TEMPERATURE AND HUMIDITY SENSING AND ALARM AUTOMATION USING
PYTHON

BY

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CODE:

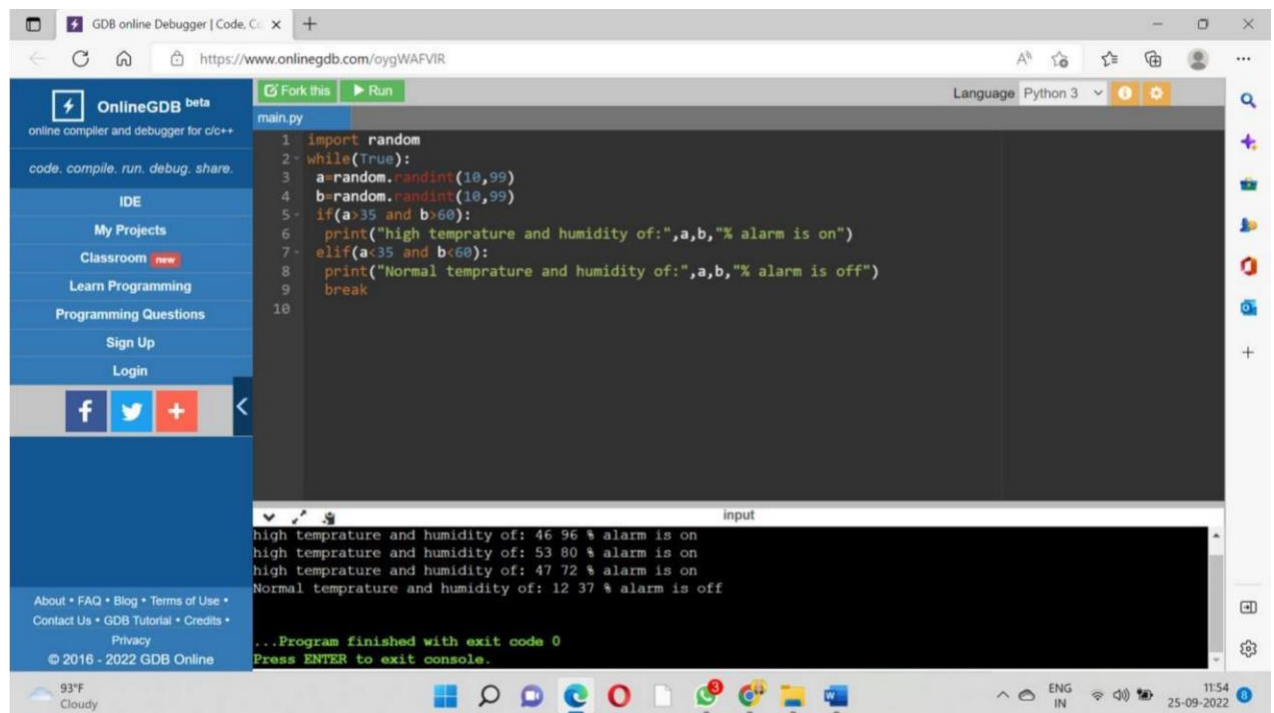
```
import random while(True):
```

```
a=random.randint(10,99)    b=random.randint(10,99)    if(a>35 and b>60):
```

```
print("high temprature and humidity of:",a,b,"% alarm is on") elif(a<35 and
```

```
b<60): print("Normal temprature and humidity of:",a,b,"%alarm is off") break
```

OUTPUT:



The screenshot shows the OnlineGDB web interface. The browser address bar displays `https://www.onlinegdb.com/oYgWAFVIR`. The interface includes a sidebar with navigation links such as "IDE", "My Projects", "Classroom", "Learn Programming", "Programming Questions", "Sign Up", and "Login". The main editor area shows a Python file named `main.py` with the following code:

```
1 import random
2 while(True):
3     a=random.randint(10,99)
4     b=random.randint(10,99)
5     if(a>35 and b>60):
6         print("high temprature and humidity of:",a,b,"% alarm is on")
7     elif(a<35 and b<60):
8         print("Normal temprature and humidity of:",a,b,"%alarm is off")
9         break
10
```

Below the code editor, the output console displays the results of the program's execution:

```
high temprature and humidity of: 46 96 % alarm is on
high temprature and humidity of: 53 80 % alarm is on
high temprature and humidity of: 47 72 % alarm is on
Normal temprature and humidity of: 12 37 % alarm is off
...Program finished with exit code 0
Press ENTER to exit console.
```

The bottom of the screenshot shows a Windows taskbar with various application icons, a system clock indicating 11:54 on 25-09-2022, and weather information for 93°F and Cloudy.