

IBM-NALAYATHIRAN

DOMAIN-IOT

ASSIGNMENT 2

TEMPERATURE AND HUMIDITY SENSING AND ALARM AUTOMATION USING
PYTHON

BY

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CODE:

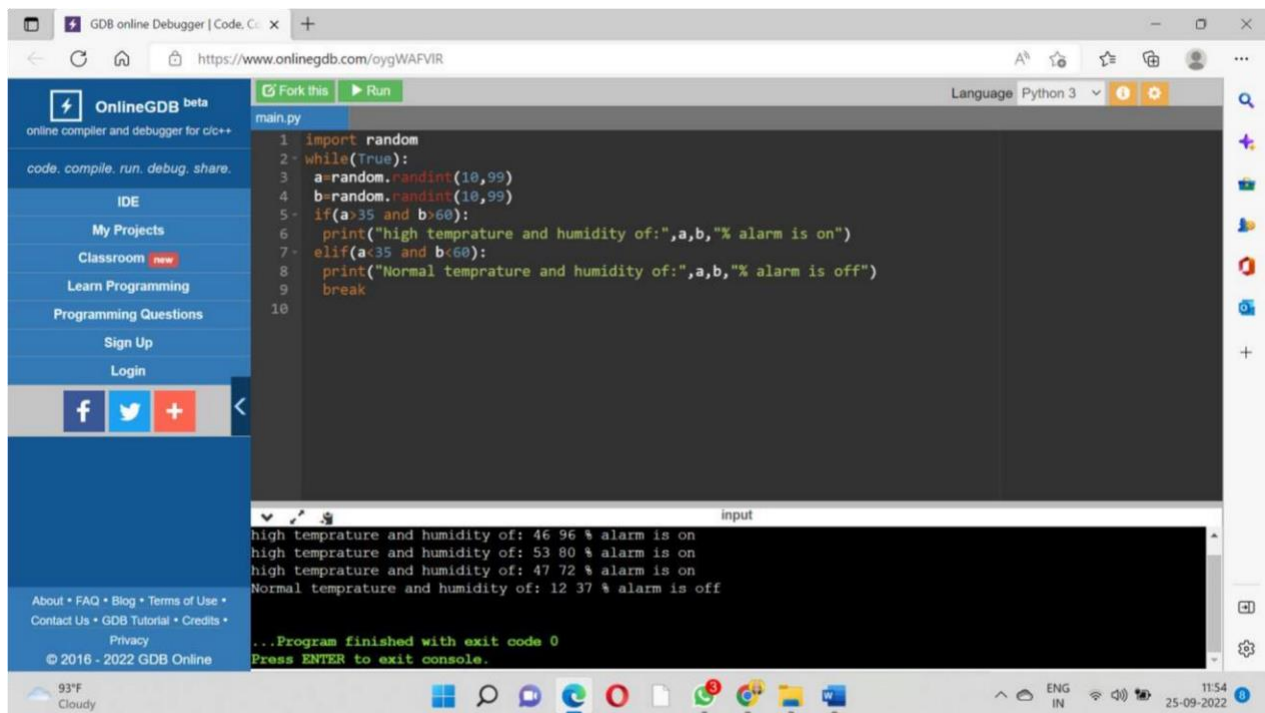
```
import random while(True):
```

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

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

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

OUTPUT:



The screenshot shows the OnlineGDB web interface. The code editor contains a Python script named `main.py` with the following content:

```
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 temperature 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
```

The output console shows the results of the program's execution:

```
high temperature 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 interface also includes a sidebar with navigation links (IDE, My Projects, Classroom, Learn Programming, Programming Questions, Sign Up, Login) and a footer with social media icons and copyright information.