

IBM-NALAYATHIRAN

DOMAIN-IOT

ASSIGNMENT 2

TEMPERATURE AND HUMIDITY SENSING AND ALARM AUTOMATION USING  
PYTHON

BY

SHYLA SREE R L

CODE:

```
import random
```

```
while(True):
```

```
    a=random.randint(10,99)
```

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

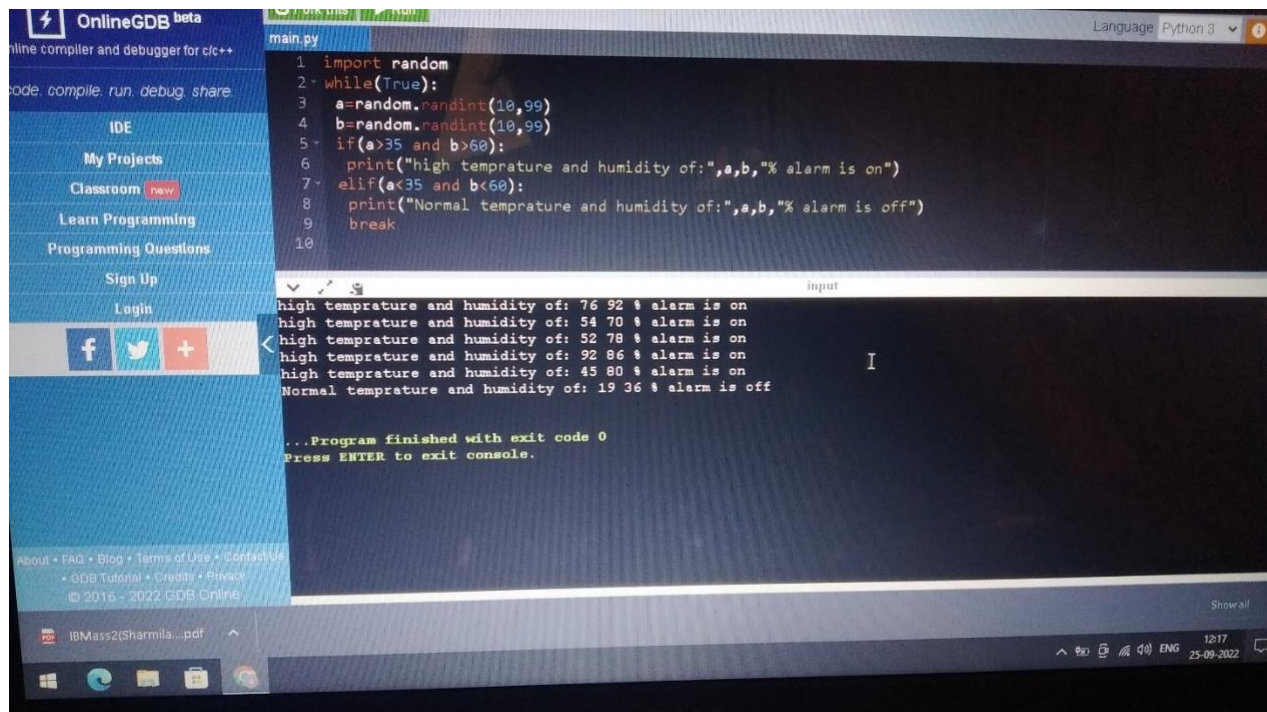
```
and b>60):
```

```
        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 beta web interface. On the left is a sidebar with 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 generic share icon. The main area displays a Python script 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") break
9
10
```

Below the code editor is an 'input' field and a console output area. The output shows five iterations of the program, each printing a line of data. The first four iterations show 'alarm is on' and the fifth shows 'alarm is off'. The console ends with the message '...Program finished with exit code 0' and 'Press ENTER to exit console.' The bottom of the screen shows a Windows taskbar with a file explorer icon and a file named 'IBMass2(Sharmila...)pdf' open. The system clock indicates 12:17 on 25-09-2022.