

# Python Code to Get Temperature and Humidity Value and To Detect Alarm in High Temperature

## Program:

```
import random

while (True):

    temperature=random.randint(10,99)

    humidity=random.randint(10,99)

    print("Current Temperature: ",temperature)

    print("Current Humidity: ",humidity,"%")

    temperature_ref=40

    humidity_ref=45

    if temperature>temperature_ref and
humidity<humidity_ref:

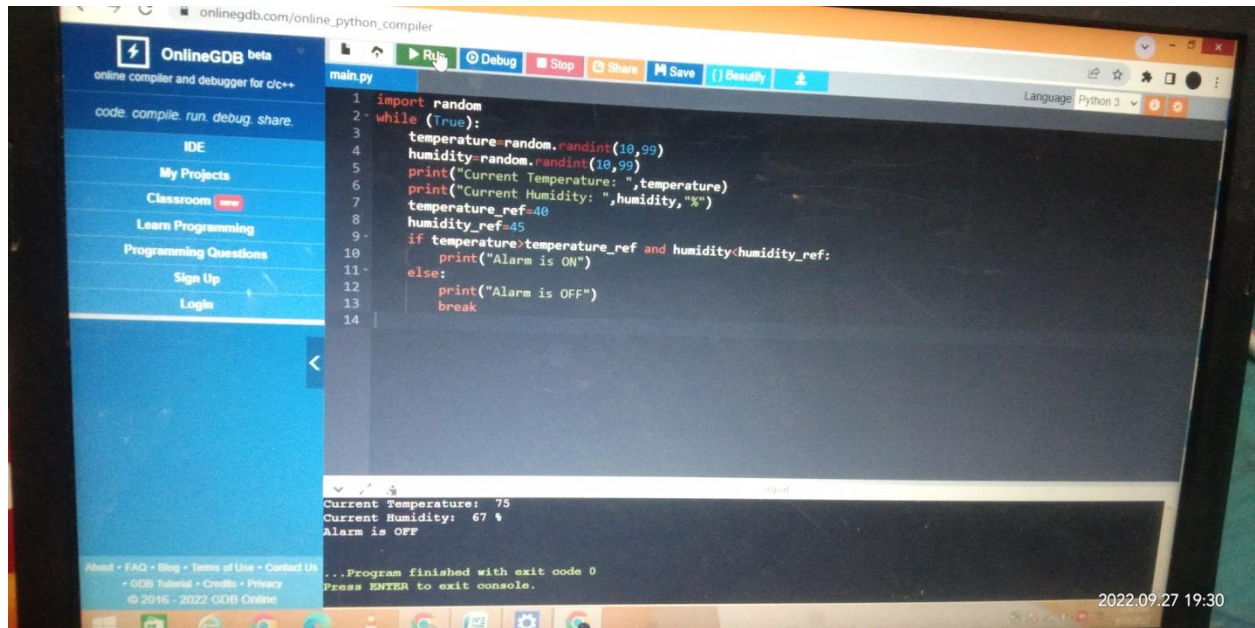
        print("Alarm is ON")

    else:

        print("Alarm is OFF")

        break
```

# Output:



The screenshot shows the OnlineGDB IDE interface. The code in `main.py` is as follows:

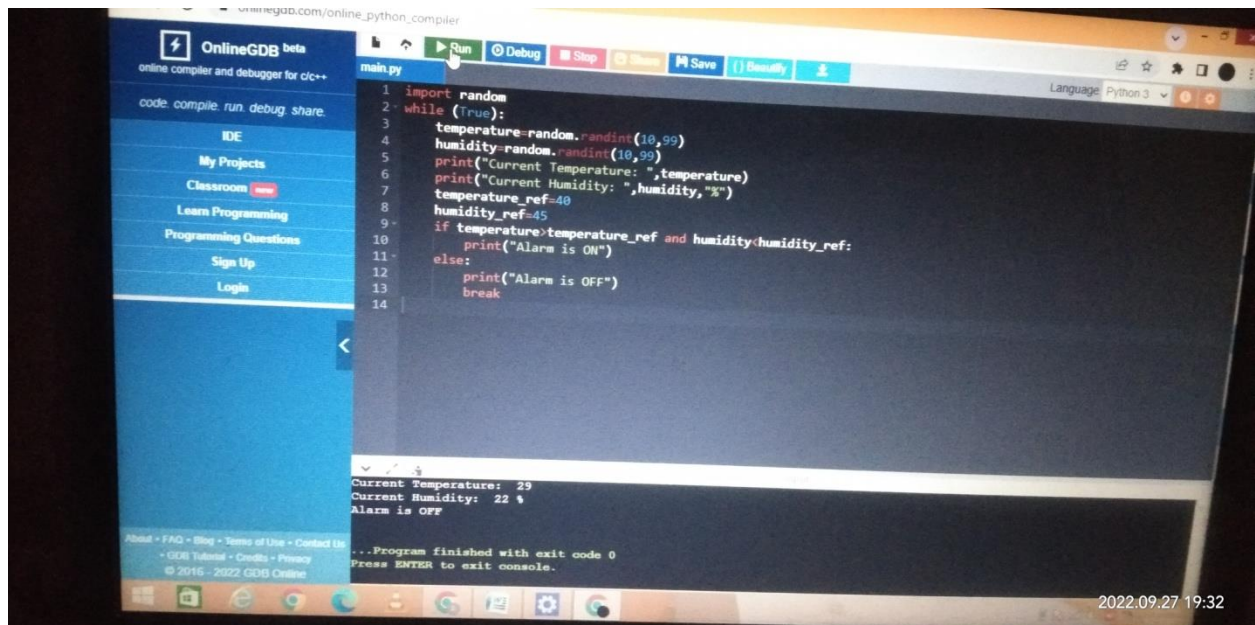
```
1 import random
2 while (True):
3     temperature=random.randint(10,99)
4     humidity=random.randint(10,99)
5     print("Current Temperature: ",temperature)
6     print("Current Humidity: ",humidity,"%")
7     temperature_ref=40
8     humidity_ref=45
9     if temperature>temperature_ref and humidity>humidity_ref:
10         print("Alarm is ON")
11     else:
12         print("Alarm is OFF")
13         break
14
```

The output console shows the following results:

```
Current Temperature: 75
Current Humidity: 67 %
Alarm is OFF

...Program finished with exit code 0
Press ENTER to exit console.
```

The timestamp in the bottom right corner is 2022.09.27 19:30.



The screenshot shows the OnlineGDB IDE interface with the same code as the first image. The output console shows the following results:

```
Current Temperature: 29
Current Humidity: 22 %
Alarm is OFF

...Program finished with exit code 0
Press ENTER to exit console.
```

The timestamp in the bottom right corner is 2022.09.27 19:32.