

ASSIGNMENT-2

NAME:DHARSHNA BALA G

TEAM ID:PNT2022TMID12783

QUESTION:

Build a python code, Assume u get temperature and humidity values (generated with a random function to a variable) and write a condition to detect an alarm in case of high temperature continuously.

CODE:

```
import random

import time

while True:

    temp = random.randint(1,100)

    humi = random.randint(1,100)

    print("Temperature: ", temp)

    print("Humidity: ", humi)

    if temp >= 60 and (30 < humi > 60):

        print("Alarm ON!")

    else:

        print("Alarm OFF!")

        time.sleep(2)
```

OUTPUT:

The screenshot shows the OnlineGDB IDE interface. On the left is a sidebar with navigation links: OnlineGDB beta, code.compile.run.debug.share., IDE, My Projects, Classroom (new), Learn Programming, Programming Questions, Sign Up, and Login. Below these are social media icons for Facebook, Twitter, and a '+ 30.2K' button. At the bottom of the sidebar is a 'GOT AN OPINION?' survey by Rakuten AIP. The main area displays a Python script in a dark-themed editor. The script is a simple loop that generates random temperature and humidity values and prints them, along with an alarm status based on a condition. The output window at the bottom shows the execution results, with the program running for 2 seconds. The output is as follows:

```
Temperature: 14
Humidity: 45
Alarm OFF!
Temperature: 49
Humidity: 82
Alarm OFF!
Temperature: 99
Humidity: 64
Alarm ON!
```

This screenshot shows the same OnlineGDB IDE interface as the first one, but with a different set of random values generated by the Python program. The output window displays the following results:

```
Temperature: 14
Humidity: 45
Alarm OFF!
Temperature: 49
Humidity: 82
Alarm OFF!
Temperature: 99
Humidity: 64
Alarm ON!
Temperature: 13
Humidity: 58
Alarm OFF!
Temperature: 39
Humidity: 11
Alarm OFF!
Temperature: 91
Humidity: 44
Alarm OFF!
Temperature: 90
Humidity: 39
Alarm OFF!
Temperature: 75
Humidity: 58
Alarm OFF!
Temperature: 95
Humidity: 19
Alarm OFF!
Temperature: 77
Humidity: 32
Alarm OFF!
Temperature: 74
Humidity: 33
Alarm OFF!
```