

## **ASSIGNMENT – III**

### **PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHTS FOR RASPBERRY PI**

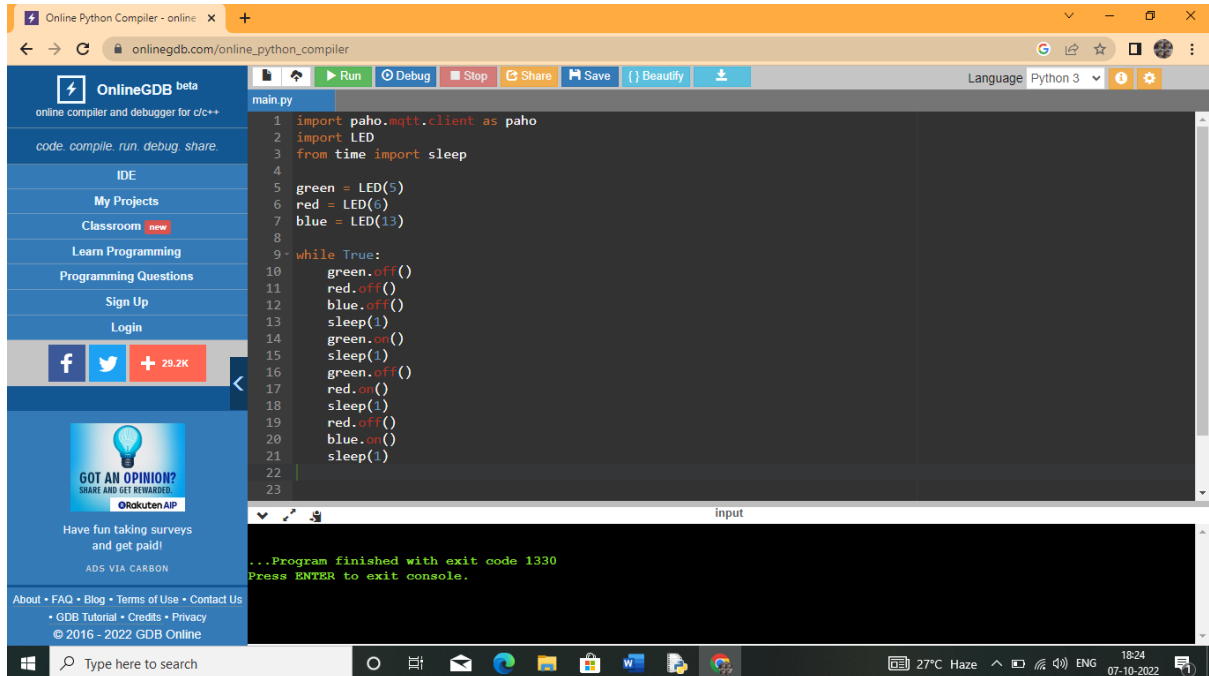
#### **PROGRAM:**

```
import paho.mqtt.client as paho
import LED
from time import sleep

green = LED(5)
red = LED(6)
blue = LED(13)

while True:
    green.off()
    red.off()
    blue.off()
    sleep(1)
    green.on()
    sleep(1)
    green.off()
    red.on()
    sleep(1)
    red.off()
    blue.on()
    sleep(1)
```

# SIMULATION



The screenshot displays the OnlineGDB web interface for Python 3. The left sidebar contains navigation links: IDE, My Projects, Classroom (new), Learn Programming, Programming Questions, Sign Up, and Login. Below these are social media icons for Facebook and Twitter, and a Rakuten AIP advertisement. The main editor area shows a Python script named 'main.py' with the following code:

```
1 import paho.mqtt.client as paho
2 import LED
3 from time import sleep
4
5 green = LED(5)
6 red = LED(5)
7 blue = LED(13)
8
9 while True:
10     green.off()
11     red.off()
12     blue.off()
13     sleep(1)
14     green.on()
15     sleep(1)
16     green.off()
17     red.on()
18     sleep(1)
19     red.off()
20     blue.on()
21     sleep(1)
22
23
```

The output console at the bottom shows the message: "...Program finished with exit code 1330. Press ENTER to exit console."

The browser's address bar shows the URL 'onlinegdb.com/online\_python\_compiler'. The Windows taskbar at the bottom indicates the system time as 18:24 on 07-10-2022, with weather information for 27°C Haze.