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Assignment 3

Code for the circuit:

```
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()

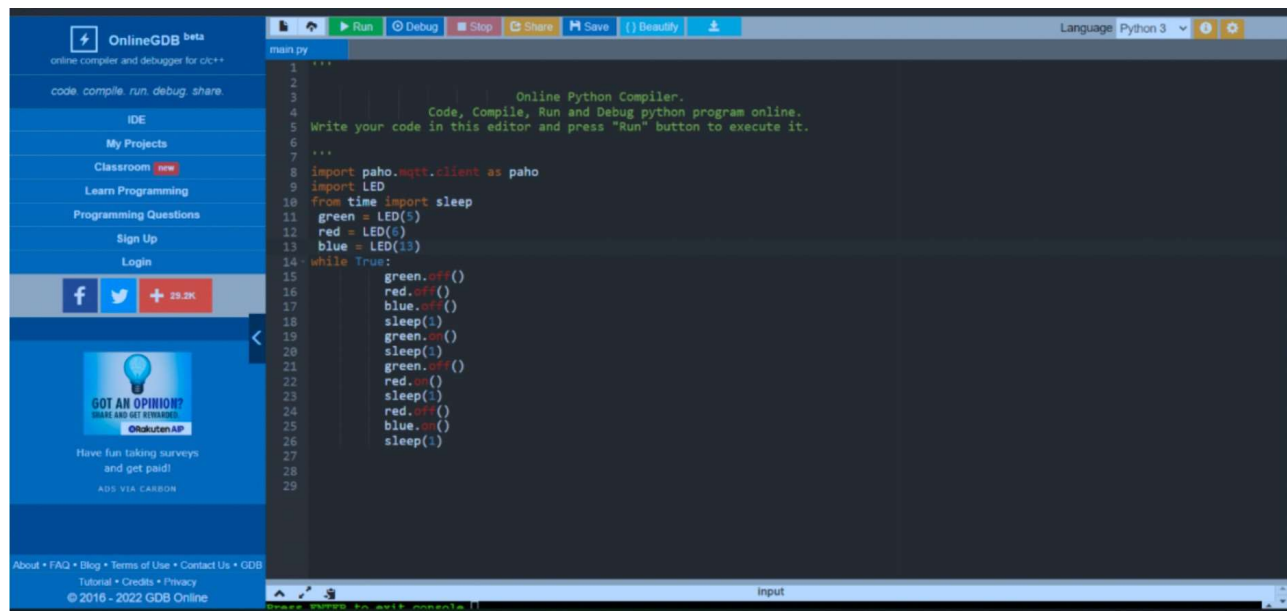
red.on()

sleep(1)

red.off()

blue.on()

sleep(1)



The screenshot shows the OnlineGDB web interface. On the left is a sidebar with navigation links: IDE, My Projects, Classroom, Learn Programming, Programming Questions, Sign Up, and Login. Below these are social media icons for Facebook and Twitter, and a 'GOT AN OPINION?' survey banner. The main area is a code editor with a dark theme, showing a Python script. The script imports the paho.mqtt.client module and the LED module, then enters a while loop that toggles the state of three LEDs (green, red, blue) and sleeps for 1 second between each toggle. The bottom of the interface shows a terminal window with the prompt 'main.py' and a status bar with 'Language: Python 3'.

```
1  ...
2
3      Online Python Compiler.
4      Code, Compile, Run and Debug python program online.
5      Write your code in this editor and press "Run" button to execute it.
6  ...
7
8  import paho.mqtt.client as paho
9  import LED
10 from time import sleep
11 green = LED(5)
12 red = LED(6)
13 blue = LED(13)
14 while True:
15     green.off()
16     red.off()
17     blue.off()
18     sleep(1)
19     green.on()
20     sleep(1)
21     green.off()
22     red.on()
23     sleep(1)
24     red.off()
25     blue.on()
26     sleep(1)
27
28
29
```