

ASSIGNMENT III

PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHTS FOR RASPBERRY PI

PROGRAM:

```
from gpiozero import lights
```

```
from time import sleep
```

```
red=lights(25)
```

```
yellow=lights(8)
```

```
green=lights(7)
```

```
while True:
```

```
    green.off()
```

```
    red.off()
```

```
    yellow.off()
```

```
    sleep(1)
```

```
    green.on()
```

```
    sleep(1)
```

```
    green.off()
```

```
    red.on()
```

```
    sleep(1)
```

```
    red.off()
```

```
    yellow.on()
```

```
    sleep(1)
```

SIMULATION IN ONLINE COMPILER:

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 'GOT AN OPINION?' survey banner. The main editor area shows a file named 'main.py' with the following Python code:

```
1 from gpiozero import lights
2 from time import sleep
3 red=lights(25)
4 yellow=lights(8)
5 green=lights(7)
6 while True:
7     green.off()
8     red.off()
9     yellow.off()
10    sleep(1)
11    green.on()
12    sleep(1)
13    green.off()
14    red.on()
15    sleep(1)
16    red.off()
17    yellow.on()
18    sleep(1)
19
```

The bottom console shows the output: "...Program finished with exit code 1" and "Press ENTER to exit console." The Windows taskbar at the bottom indicates the system time is 9:10 PM on 10/7/2022, with a temperature of 25°C and mostly cloudy weather.