

ASSIGNMENT 3

PYTHON CODE FOR TRAFFIC LIGHTS IN RASPBERRY PI

PYTHON CODE:

```
from gpiozero import Button, TrafficLights, Buzzer
```

```
from time import sleep
```

```
buzzer = Buzzer(15)
```

```
button = Button(21)
```

```
lights = TrafficLights(25, 8, 7)
```

```
while True:
```

```
    button.wait_for_press()
```

```
    buzzer.on()
```

```
    light.red.on()
```

```
    sleep(1)
```

```
    lights.amber.on()
```

```
    sleep(1)
```

```
    lights.green.on()
```

```
    sleep(1)
```

```
    lights.off()
```

```
    buzzer.off()
```

GPIO PIN DIAGRAM:



GPIO PINS USED :

- GP 21-BUTTON
- GP 15-BUZZER
- GP 25- RED LED
- GP 8- YELLOW LED
- GP 7- GREEN LED