

ASSIGNMENT 3

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Python code for blinking LED using Raspberry pi

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
while True:
    GPIO.output(8, GPIO.HIGH)
    sleep(1)
    GPIO.output(8, GPIO.LOW)
    Sleep(1)
```

Python code for Traffic Lights using Raspberry pi

TRAFFIC LIGHTS

```
from gpiozero import Button, TrafficLights
lights = TrafficLights(25, 8, 7)
while True:
    button.wait_for_press()
    lights.on()
    button.wait_for_release()
    lights.off()
while True:
    lights.blink()
    button.wait_for_press()
```

```
lights.off()
```

```
button.wait_for_release()
```

TRAFFIC LIGHTS SEQUENCES

```
from time import sleep
```

```
while True:
```

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

```
sleep(1)
```

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

```
sleep(1)
```

```
lights.red.on()
```

```
sleep(1)
```

```
lights.off()
```

```
while True:
```

```
button.wait_for_press()
```

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

```
sleep(1)
```

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

```
sleep(1)
```

```
lights.red.on()
```

```
sleep(1)
```

```
lights.off()
```