

Nalaiya Thiran

Assignment – 3

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1.Blinking Led:

Source Code:

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setmode(GPIO.BOARD)
GPIO.setup(6, GPIO.OUT)

while True:
    GPIO.output(6, GPIO.HIGH)
    print("LED On")
    sleep(3)
    GPIO.output(6, GPIO.LOW)
    sleep(3)
    print("LED Off")
```

Output:

```
LED ON
LED OFF
LED ON
LED OFF
LED ON
LED OFF
LED ON
LED OFF
LED ON
LED OFF
```

2. Traffic Signal:

Source Code:

```
from gpiozero import TrafficLights
from time import sleep

lights = TrafficLights(7,8,6)

while True:
    light.red.off()
    light.green.on()
    print(GREEN)
    sleep(3)
    light.green.off()
    lights.amber.on()
    print(AMBER)
    sleep(3)
    lights.amber.off()
    light.red.on()
    print(RED)
    sleep(3)
```

Output:

```
GREEN
AMBER
RED
GREEN
AMBER
RED
GREEN
```
