

# Nalaiya Thiran

## Assignment – 3

**Done By:** Rishva R

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### 1.Blinking Led:

#### Source Code:

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setmode(GPIO.BOARD)
GPIO.setup(7, GPIO.OUT)

while True:
    GPIO.output(7, GPIO.HIGH)
    print("LED On")
    sleep(1)
    GPIO.output(7, GPIO.LOW)
    sleep(1)
    print("LED Off")
```

#### Output:

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

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## 2. Traffic Signal:

### Source Code:

```
from gpiozero import TrafficLights
from time import sleep

lights = TrafficLights(10, 9, 11)

while True:
    light.red.off()
    light.green.on()
    print(GREEN)
    sleep(1)
    light.green.off()
    lights.amber.on()
    print(AMBER)
    sleep(1)
    lights.amber.off()
    light.red.on()
    print(RED)
    sleep(1)
```

### Output:

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

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