Nalaiya Thiran

Assignment – 3

Done By: Kavinbharathi A   **Team ID:** PNT2022TMID04358

Roll No: 737819CSR084

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:

```python
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
```