

*Assignment-3 : **Blinking LED & Traffic Lights(PYTHON)***

LED BLINKING CODE

```
import RPi.GPIO as GP from
time import sleep

GP.setwarnings(False)
GP.setmode(GP.BOARD)
GP.setup(8,GP.OUT,initial=GP.LOW)

while True:                                #Infinite loop
    GP.output(8, GPIO.HIGH)                # Turn on
    print("The LED is ON")
    sleep(2)                               # Sleep for 2 second
    GP.output(8, GPIO.LOW)                 # Turn off
    print("The LED is OFF")
    sleep(2)                               # Sleep for 2 second
```

TRAFFIC LIGHT RASBERRY PYTHON CODE

```
From gpiozero import LED
From time import sleep

Red= LED(17) #pin numbers connected to Led's
Aster=(22)
Green=(27)

While True:

    Red.on() #RED light

    Print("Red light is ON")

    For I in range(100,0,-1):
```

Print("Remaining time: ",i)

Sleep(1)

Red.off()

Aster.on() # ASTER light

Print("Yellow light is ON")

For I in range(5,0,-1):

Print("Remaining time: ",i)

Sleep(1)

Aster.off()

Green.on #GREEN light

Print("Green light is ON")

For I in range(30,0,-1):

Print("Remaining time: ",i)

Sleep(1)

Green.off()