

ASSIGNMENT 3:

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()
```

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
```