ASSIGNMENT-3

#LED BLINKING :

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

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

while True:               #infinite loop
    GPIO.output(8, GPIO.HIGH)       # Turn on
    print("The LED is ON")
    sleep(5)              # Sleep for 5 second

    GPIO.output(8, GPIO.LOW)        # Turn off
    print("The LED is OFF")
    sleep(5)              # Sleep for 5 second
```

#TRAFFIC LIGHT CODE :

```python
from gpiozero import LED
from time import sleep


red= LED(17)      #pin numbers connected to Led's
amber=(22)
green=(27)
```

```python
while True:
    red.on()                #RED light
    print("Red light is ON")
    for i in range(60,0,-1):
        print("Remaining time: ",i)
        sleep(1)
    red.off()

    amber.on()              # AMBER light
    print("Yellow light is ON")
    for i in range(5,0,-1):
        print("Remaining time: ",i)
        sleep(1)
    amber.off()

    green.on                #GREEN light
    print("Green light is ON")
    for i in range(40,0,-1):
        print("Remaining time: ",i)
        sleep(1)
    green.off()
```