

ASSIGNMENT 3

Blinking LED using raspberry pi and python

```
Import RPi.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(7, GPIO.OUT, initial=GPIO.LOW)
while True:
    GPIO.output(7, GPIO.HIGH)
    sleep(1)
    GPIO.output(7, GPIO.LOW)
    sleep(1)
```

Traffic light functionality

```
from gpiozero import LED
from time import sleep
red= LED(18)
aster=(20)
green=(24)
while True:
    red.on()
```

```
print("Red light is ON")

for i in range(100,0,-1):
    print("Remaining time: ",i)
    sleep(1)

red.off()

aster.on()

print("Yellow light is ON")

for i in range(5,0,-1):
    print("Remaining time: ",i)
    sleep(1)

aster.off()

green.on

print("Green light is ON")

for i in range(30,0,-1):
    print("Remaining time: ",i)
    sleep(1)

green.off()
```
