# 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(8, GPIO.OUT, initial=GPIO.LOW)

while True:

    GPIO.output(8, GPIO.HIGH)

    sleep(1)

    GPIO.output(8, GPIO.LOW)

    sleep(1)
```

## Traffic light functionality

```
from gpiozero import LED

from time import sleep

red= LED(17)

aster=(22)

green=(27)

while True:

        red.on()
```

```python
    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()
```

---