Assignment 3 :

LED BLINK:

```python
import RPi.GPIO as GPIO

from time import sleep


#initialization

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

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


#Blinking

while True:

 GPIO.output(8, GPIO.HIGH)

 sleep(1)

 GPIO.output(8, GPIO.LOW)

 sleep(1)
```

Traffic Light:

```python
import RPi.GPIO as GPIO

import time

import signal
```

```python
import sys


#Setup
GPIO.setmode(GPIO.BCM)
GPIO.setup(8, GPIO.OUT)
GPIO.setup(9, GPIO.OUT)
GPIO.setup(10, GPIO.OUT)


#loop for the traffic light function
while True:
    # Red
    GPIO.output(8, True)
    time.sleep(3)
    # Yellow before green
    GPIO.output(8, False)
    GPIO.output(9, True)
    time.sleep(1)
    # Green
    GPIO.output(8, False)
    GPIO.output(9, False)
    GPIO.output(10, True)
    time.sleep(5)
    # Yellow
    GPIO.output(10, False)
    GPIO.output(9, True)
```

```python
time.sleep(2)

# Yellow going off before red begins

GPIO.output(10, False)
```