ASSIGNMENT 3

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PROGRAM

```
LED BLINKING:
```

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:

import RPi.GPIO as GPIO

import time

import signal

import sys

GPIO.setmode(GPIO.BCM)

GPIO.setup(9, GPIO.OUT)

GPIO.setup(10, GPIO.OUT)

GPIO.setup(11, GPIO.OUT)

def allLightsOff(signal, frame):

GPIO.output(9, False)

GPIO.output(10, False)

GPIO.output(11, False)

GPIO.cleanup()

sys.exit(0)

signal.signal(signal.SIGINT, allLightsOff)

```
while True:
         # Red
         GPIO.output(9, True)
         time.sleep(3)
         # Red and amber
         GPIO.output(10, True)
         time.sleep(1)
         # Green
         GPIO.output(9, False)
         GPIO.output(10, False)
         GPIO.output(11, True)
         time.sleep(5)
         # Amber
         GPIO.output(11, False)
         GPIO.output(10, True)
         time.sleep(2)
         # Amber off (red comes on at top of loop)
GPIO.output(10, False)
```