**ASSIGNMENT 3**

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**import RPi.GPIO as GPIO**

**import time**

**import signal**

**import sys**

**GPIO.setmode(GPIO.BCM)**

**GPIO.setup(20, GPIO.OUT)**

**GPIO.setup(21, GPIO.OUT)**

**GPIO.setup(22, GPIO.OUT)**

**def allLightsOff(signal, frame):**

**GPIO.output(20, False)**

**GPIO.output(21, False)**

**GPIO.output(22, False)**

**GPIO.cleanup()**

**sys.exit(0)**

**signal.signal(signal.SIGINT, allLightsOff)**

**while True:**

**# Red**

**GPIO.output(20, True)**

**time.sleep(2)**

**# Red and amber**

**GPIO.output(21, True)**

**time.sleep(2)**

**# Green**

**GPIO.output(20, False)**

**GPIO.output(21, False)**

**GPIO.output(22, True)**

**time.sleep(2)**

**# Amber**

**GPIO.output(22, False)**

**GPIO.output(21, True)**

**time.sleep(2)**

**# Amber off (red comes on at top of loop)**

**GPIO.output(21, False)**