

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)
```