



### **For Traffic Lights:**

```
import Rpi.GPIO as GPIO
```

```
import time
```

```
import signal
```

```
import sys
```

```
#Setup
```

```
GPIO.setmode(GPIO.BCM)
```

```
GPIO.setup(9,GPIO.OUT)
```

```
GPIO.setup(10,GPIO.OUT)
```

```
GPIO.setup(11,GPIO.OUT)
```

```
#Turn off all lights when user ends demo
```

```
def allLightsOff(signal,framer):
```

```
    GPIO.output(9,False)
```

```
    GPIO.output(10,False)
```

```
    GPIO.output(11,False)
```

```
    GPIO.cleanup()
```

```
    sys.exit(0)
```

```
signal.signal(signal.SIGINT,allLightsOff)
```

```
#Loop forever
```

```
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)
```