



SoSLUG - GPIO Starter Kit Software - 1 Traffic Light

Southend-on-Sea Linux
Users Group (SoSLUG)
<http://www.soslug.org/>

Python Software

```
# Traffic Lights 25/10/2014

# Written by Ray Eacott Rev 2 for use with python 3.2

import RPi.GPIO as GPIO      # import GPIO library
import time                  # import time module so we can use the
                              # sleep function

GPIO.setmode(GPIO.BOARD)     # Use pin numbers
GPIO.setwarnings(False)

Red = 12                      # Pin for Red LED etc
Orange = 16
Green = 18

GPIO.setup(Red, GPIO.OUT)    # set pin 12 to output
GPIO.setup(Orange, GPIO.OUT) # set pin 16 to output
GPIO.setup(Green, GPIO.OUT)  # set pin 18 to output

for traffic in range(1,10):

    GPIO.output(Red, True)    # switch on Red LED
    time.sleep(1)            # wait 1 sec
    GPIO.output(Orange, True) # switch on Orange LED
    time.sleep(1)            # wait 1 sec

    GPIO.output(Red, False)   # switch off Red LED
    GPIO.output(Orange, False) # switch off Orange LED
    GPIO.output(Green, True)  # switch on Green LED
    time.sleep(5)            # wait 5 sec
    GPIO.output(Green, False) # switch off Green LED

    GPIO.output(Orange, True) # switch on Orange LED
    time.sleep(1)            # wait 1 sec
    GPIO.output(Orange, False) # switch off Orange LED

    next                    # start again

GPIO.cleanup()              # reset GPIO pins
```