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

# Writen 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 funtion

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(2)                   # wait 2 sec
    GPIO.output(Orange, True)       # switch on Orange LED
    time.sleep(2)                   # wait 2 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(2)                   # wait 2 sec
    GPIO.output(Green, False)       # switch off Green LED

    GPIO.output(Orange, True)       # switch on Orange LED
    time.sleep(2)                   # wait 2 sec
    GPIO.output(Orange, False)      # switch off Orange LED

    next                            # start again

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