import RPi.GPIO as GPIO

import time

# Setup GPIO pins

GPIO.setmode(GPIO.BCM)

RED\_PIN = 17

YELLOW\_PIN = 27

GREEN\_PIN = 22

GPIO.setup(RED\_PIN, GPIO.OUT)

GPIO.setup(YELLOW\_PIN, GPIO.OUT)

GPIO.setup(GREEN\_PIN, GPIO.OUT)

def traffic\_light\_sequence():

while True:

# Red light

GPIO.output(RED\_PIN, GPIO.HIGH)

time.sleep(5)

GPIO.output(RED\_PIN, GPIO.LOW)

# Green light

GPIO.output(GREEN\_PIN, GPIO.HIGH)

time.sleep(5)

GPIO.output(GREEN\_PIN, GPIO.LOW)

# Yellow light

GPIO.output(YELLOW\_PIN, GPIO.HIGH)

time.sleep(2)

GPIO.output(YELLOW\_PIN, GPIO.LOW)

try:

traffic\_light\_sequence()

except KeyboardInterrupt:

  GPIO.cleanup()