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# ASSIGNMENT 3

# Blinking LED

import RPi.GPIO as GPIO from time import sleep

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)

while True:

GPIO.output(8, GPIO.HIGH)

sleep(1)

GPIO.output(8, GPIO.LOW)

sleep(1)

# Traffic light Simulation import RPi.GPIO as GPIO import time import signal import sys

GPIO.setmode(GPIO.BCM) GPIO.setup(9, GPIO.OUT)

GPIO.setup(10, GPIO.OUT) GPIO.setup(11, GPIO.OUT) 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)