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)