ASSIGNMENT-3

PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHTS FOR RASPBERRY PI

# For 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)

# F or Traffic Lights:

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)

def allLightsOff(signal,framer):

GPIO.output(9,False) GPIO.output(10,False) GPIO.output(11,False) GPIO.cleanup() sys.exit(0)

signal.signal(signal.SIGINT,allLightsOff)

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)