ASSIGNMENT 3

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| MAXIMUM MARKS | 2 MARKS |

QUESTION:

Python code for LED blinking and traffic light controller using raspberry pi.

LED BLINKING:

import RPi.GPIO as GP from time import sleep

GP.setwarnings(False)

GP.setmode(GP.BOARD)

GP.setup(8,GP.OUT,initial=GP.LOW) while True: print("LED is ON") sleep(2) print("LED is OFF") sleep(2)

TRAFFIC LIGHT CONTROLLER:

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, frame): GPIO.output(9, False)

GPIO.output(10, False)

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

signal.signal(signal.SIGINT, allLightsOff) while True: GPIO.output(9, True) time.sleep(3) GPIO.output(10, True) time.sleep(1)

GPIO.output(9, False)

GPIO.output(10, False) GPIO.output(11, True) time.sleep(5)

GPIO.output(11, False)

GPIO.output(10, True)

time.sleep(2)

GPIO.output(10, False)