ASSINGMENT 3

Write a python code for blinking LED and Traffic lights for Raspberry pi.

**CODE:**

**RASPBERRY PI LED BLINK:**

import RPi.GPIO as GPIO import time GPIO.setmode(GPIO.BCM) GPIO.setwarnings(False) GPIO.setup(18,GPIO.OUT) print ("LED on") GPIO.output(18,GPIO.HIGH)

time.sleep(1) print ("LED off") GPIO.output(18,GPIO.LOW)

**CODE:**

**RASPBERRY PI FOR TRAFFIC LIGHT:**

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)