Assignment -3

Assignment Date   16/11/2022
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Question:

Write a python code for blinking LED and Traffic Lights for RaspberryPi.

Solution:

Python Code:

1)   **PYTHON CODE FOR BLINKING LED FOR RASPBERRY PI:** 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)

2)   **PYTHON CODE FOR TRAFFIC LIGHTS FOR RASPBERRY PI:**
from gpiozero import Button, TrafficLights, Buzzer   from time import sleep   buzzer = Buzzer(15)   button = Button(21)   lights = TrafficLights(25, 8, 7)   while True: button.wait_for_press()   buzzer.on()
light.green.on()   sleep(1)   lights.amber.on()
sleep(1)   lights.red.on()   sleep(1)
lights.off()   buzzer.off()