ASSIGNMENT-3

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Write python code for blinking LED and Traffic lights for Raspberry pi.Only python code is enough, no need to execute in raspberry pi.

Code:

#Blinking LED

import RPi.GPIO as GPIO

import time

GPIO.setmode(GPIO.BCM)

 $\label{lem:GPIO.setwarnings} GPIO.setwarnings(False)$

GPIO.setup(18,GPIO.OUT)

print("LED on")

GPIO.output(18,GPIO.HIGH)

time.sleep(1)

print("LED off")

GPIO.output(18,GPIO.LOW)

#Traffic Light

```
from gpiozero import Button, TrafficLights, Buzzer
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from time import sleep

buzzer = Buzzer(15)

button = Button(21)

lights = TrafficLights(25, 8, 7)

#Button 21

#Red LED 25

#Yellow LED 08

#Green LED 07

#Buzzer 15

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()

In Compiler: