ASSIGNMENT-3

Project Name:	Smart Solutions For Railways
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PROBLEM STATEMENT

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

SOURCE CODE:

BLINKING LED CODE:

import RPi.GPIO as GPIO from time import sleep LED

= 30

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

GPIO.setup(LED, GPIO.OUT, initial=GPIO.LOW)

while True:

```
GPIO.output(LED, GPIO.HIGH)
```

sleep(1)

GPIO.output(LED, GPIO.LOW)

sleep(1)

TRAFFIC LIGHTS:

from gpiozero import Button, TrafficLights, Buzzerfrom

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()