

ASSIGNMENT-3

Project Name:	Smart Solutions For Railways
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PROBLEM STATEMENT

Write a python code for blinkingLEDand Traffic lights for Raspberry pi.Only python code is enoughno 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()
```