

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, 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()
```