<center>**ASSIGNMENT-3**</center>

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 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()
```