

PROBLEM STATEMENT :

IoT based Smart Solution for Railways

DOMAIN :

Internet of Things.

ASSIGNMENT 3 :

Python code for blinking led and traffic lights for raspberry pi

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1. LED

```
import RPi.GPIO as GPIO

from time import sleep

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)

value to low (off)

while True:

    GPIO.output(8, GPIO.HIGH)

    sleep(5)

    GPIO.output(8, GPIO.LOW)

    sleep(5)
```

2. TRAFFIC LIGHT

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

buzzer = Buzzer(16)
button = Button(20)
lights = TrafficLights(24, 7, 5)

while True:
    button.wait_for_press()
    buzzer.on()
    light.green.on()
    sleep(3)
    lights.amber.on()
    sleep(3)
    lights.red.on()
    sleep(3)
    lights.off()
    buzzer.off()
```