

DOMAIN: IOT

PROJECT TITLE:

Signs with Smart Connectivity for Better Road Safety

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ASSIGNMENT TITLE:

Write a python code for blinking LED ad Traffic lights for Raspberry pi.

Blinking LED:

```
import RPi.GPIO as GP from time import sleep
GP.setwarnings(False)
GP.setmode(GP.BOARD)
GP.setup(8,GP.OUT,initial=GP.LOW)
while True:
    GP.output(8, GPIO.HIGH)
    print("The LED is ON")
    sleep(2)
    GP.output(8, GPIO.LOW)
    print("The LED is OFF")
    sleep(2)
```

Traffic Light Controller:

```
from gpiozero import LED
from time import sleep
red= LED(20)
aster=(39)
green=(42)
while True:
    red.on()
    print("Red light is ON")
    for i in range(100,0,-1):
        print("Remaining time: ",i)
        sleep(1)
    red.off()
    aster.on()
    print("Yellow light is ON")
    for i in range(5,0,-1):
        print("Remaining time: ",i)
        sleep(1)
```

```
aster.off()
green.on
print("Green light is ON")
for i in range(30,0,-1):
    print("Remaining time: ",i)
    sleep(1)
green.off()
```