

Assignment-3

Smart Solution For Railways

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Write python code for blinking LED and Traffic lights for Raspberry pi.

Program:

```
import time

import RPi.GPIO as GPIO

GPIO.setmode(GPIO.BOARD)

GPIO.setup(11, GPIO.OUT)

while True:

    GPIO.output(11,True)

    Time.sleep(1)

    GPIO.output(11,False)

    Time.sleep(1)

from gpiozero import Button,TrafficLights, Buzzer

Buzzer = Buzzer(15)

Button = Button(21)

Lights = TrafficLights(25, 8, 7)

While True:

    Button.wait_for_press()

    Buzzer.on()

    Lights.green.on()

    Sleep(1)

    lights.amber.on()

    Sleep(1)
```

lights.red.on()

Sleep(1)

lights.off()

buzzer. Off()



main.py

Shell



```
1 import time
2 import RPi.GPIO as GPIO
3 GPIO.setmode(GPIO.BOARD)
4 GPIO.setup(11, GPIO.OUT)
5 while True:
6     GPIO.output(11, True)
7     time.sleep(1)
8     GPIO.output(11, False)
9     time.sleep(1)
10 from gpiozero import Button,
    TrafficLights, Buzzer
11 buzzer = Buzzer(15)
12 button = Button(21)
13 lights = TrafficLights(25, 8, 7)
14
15 while True:
16     button.wait_for_press()
17     buzzer.on()
18     light.green.on()
19     sleep(1)
20     lights.amber.on()
21     sleep(1)
22     lights.red.on()
23     sleep(1)
24     lights.off()
25     buzzer.off()
```

Run

