

Assignment-3

Python
programming

Assignment Date	03 October 2022
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Project name	Smart solutions for railways

Question-1:

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

Solution:

```
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()

        light.green.on()

        sleep(1)

        lights.amber.on()

        sleep(1)

        lights.red.on()
```

sleep(1)

lights.off()

buzzer.off()