Assignment 3

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Question

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi.

Code:

//Code for Blinking LED//

```python
import RPi.GPIO as GPIO

import time

LED = 40

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

GPIO.setup(LED, GPIO.OUT)


while True:

    GPIO.output(LED,GPIO.HIGH)

    time.sleep(1)

    GPIO.output(LED,GPIO.LOW)

    time.sleep(1)
```

//Code for Traffic Light System//

```python
from gpiozero import Button, TrafficLights, Buzzer
```

```python
from 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()
```