Smart Waste Management System For Metropolitant Cities

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Assignment 3

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

Code for blinking LED:

```
# Import Raspberry pi GPIO library

        import RPi.GPIO  as GPIO


# Import the sleep function from time module

        from time import sleep


# Setup

        GPIO.setwarnings(False)

        GPIO.setmode(GPIO.BOARD)

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


# Run forever

    While True:

        GPIO.output(8,GPIO.HIGH)

        Sleep(1)

        GPIO.output(8,GPIO.LOW)

        Sleep(1)
```

Code for Traffic lights:

```python
from gpiozero import Button, TrafficLights, Buzzer
from time import sleep
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()
```