

Smart Waste Management System For Metropolitan 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:

```
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()
    light.green.on()
    sleep(1)
    lights.amber.on()
    sleep(1)
    lights.red.on()
    sleep(1)
    lights.off()
    buzzer.off()
```