Smart Waste Management System For Metropolitant Cities

Team ID : PNT2022TMID27129   Submitted by : DHIVYA SREE S

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