

Smart Waste Management System for Metropolitan Cities

ASSIGNMENT 3:

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:

```
from gpiozero import LED
import time

#For raspberry pi
red = LED(5)
yellow = LED(6)
green = LED(13)

while True:

    green.off()      #Execute in raspberry pi
    red.on()         #Execute in raspberry pi

    print("\033[91m Red light! GET ")
    time.sleep(3)
    print("\033[37m Blink!")
    time.sleep(1)

    red.off()        #Execute in raspberry pi
    yellow.on()       #Execute in raspberry pi

    print("\033[93m Yellow light! SET ")
    time.sleep(2)
    print("\033[37m Blink!")
    time.sleep(1)

    yellow.off()     #Execute in raspberry pi
    green.off()       #Execute in raspberry pi

    print("\033[92m Green light! GO")
    time.sleep(3)
    print("\033[37m Blink!")
    time.sleep(1)
```

OUTPUT:

Note: By commenting the Raspberry pi code and gpiozero library. We can get this Output displayed in the terminal

```
PS E:\Assignments> & "C:/Users/Arun K/AppData/Local/Programs/Python/Python310/python.exe" e:/Assignments/assignment3.py
Red light! GET
Blink!
Yellow light! SET
Blink!
Green light! GO
Blink!
```