

ASSIGNMENT-3 PYTHON CODE FOR RASPBERRY PI

PROJECT: SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

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LED BLINKING CODE:

```
import RPI.GPIO as GPIO
```

```
from time import sleep
```

```
GPIO.setwarnings(False)
```

```
GPIO.setmode(GPIO.BOARD) GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
```

```
while True:
```

```
    GPIO.output(8, GPIO.HIGH)
```

```
    sleep(1)
```

```
    GPIO.output(8, GPIO.LOW)
```

TRAFFIC LIGHT CODE:

```
from gpiozero import LED from time import sleep
red = LED(22)
yellow = LED(27)
green = LED(17)
while True:
    red.on()
    sleep(15)
    red.off()
    sleep(1)
    yellow.on()
    sleep(10)
    yellow.off()
    sleep(1)
    green.on()
    sleep(10)
    green.off()
    sleep(1)
```