

SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

ASSIGNMENT-3

Submitted by

S.Rajalakshmi

ECE-IV

953119106024

**Thamirabharani Engineering
College**

Python Code for blinking LED using Raspberry pi

```
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8,GPIO.OUT)
while True:
    GPIO.output (8, True)
    print("led is on")
    time.sleep(1)
    GPIO.output (8, False)
    print("led is off")
    time.sleep(1)
```

Python Code for Traffic lights using Raspberry pi

```
import RPi.GPIO as GPIO
from time import sleep
```

```
GPIO.setmode(GPIO.BOARD)
```

```
red=7
```

```
yellow=11
```

```
green=13
```

```
GPIO.setup(red, GPIO.OUT)
```

```
GPIO.setup(yellow, GPIO. OUT)
```

```
GPIO.setup(green, GPIO. OUT)
```

```
while True:
```

```
    GPIO.output(red, True)
```

```
    print("red led is on")
```

```
    sleep(3)
```

```
    GPIO.output(red, False)
```

```
    print("red led is off")
```

```
    GPIO.output(yellow, True)
```

```
    print("yellow led is on")
```

```
    sleep(3)
```

```
GPIO.output(yellow, False)
print("yellow led is off")
```

```
GPIO.output(green, True)
print("green led is on")
sleep(3)
GPIO.output(green, False)
print("green led is off")
```

```
GPIO.cleanup()
```