

### ASSIGNMENT 3

<b>Date</b>	<b>30 Sep 2022</b>
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<b>Project Name</b>	<b>Smartwastemanagement system for Metropolitan cities</b>

### LEDBLINKING CODE

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

```
import sleep
```

```
GP.setwarnings(False)
```

```
GP.setmode(GP.BOARD)
```

```
GP.setup(8,GP.OUT,initial=GP.LOW)
```

```
while True:          #infinite loop
```

```
    GP.output(8, GPIO.HIGH)      # Turn on    print("The LED  
is ON")
```

```
    sleep(2)              # Sleep for 2 second
```

```
    GP.output(8, GPIO.LOW)      # Turn off    print("The LED  
is OFF")
```

```
    sleep(2)              # Sleep for 2 second
```

### TRAFFIC LIGHT RASBERRY PYTHON CODE

```
from gpiozero import LED from time import  
sleep
```

```
red= LED(17)          #pin numbers connected to Led's aster=(22) green=(27)
```

```
while True:
```

```
    red.on()           #RED light  
    print("Red light is ON")    for i in  
    range(100,0,-1):
```

```
        print("Remaining time: ",i)    sleep(1)    red.off()
```

```
    aster.on()         # ASTER light    print("Yellow  
light is ON")    for i in range(5,0,-1):
```

```
        print("Remaining time: ",i)    sleep(1)    aster.off()
```

```
    green.on           #GREEN light    print("Green  
light is ON")    for i in range(30,0,-1):
```

```
        print("Remaining time: ",i)    sleep(1)    green.off()
```