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Departament	CSE
Title	Gas leakage Monitering and alerting system.
Topic	python code for blinking LED and traffic lights for Raspberry pi.

Write python code for blinking LED and traffic lights for Raspberry pi

Code:

```
//Code for Blinking LED//
```

```
import RPi.GPIO as GPIO
```

```
import time
```

```
LED = 40
```

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

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

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

```
while True:
```

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

```
    time.sleep(1)
```

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

```
    time.sleep(1)
```

```
//Code for Traffic Light System//
```

```
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()
```