

# **GAS LEAKAGE MONITORING AND ALERTING SYSTEM**

**Domain : IOT**

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**Assignment 3:**

**Write a python code for blinking LED and traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi.**

**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()
```