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:

```python
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:

```python
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()
```