***Gas Leakage monitoring & Alerting system for Industries***

**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()

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