## **ASSIGNMENT 3**

## **DOMAIN-IOT**

**PROJECT TITLE-** GAS LEAKAGE MONITORING & ALERTING SYSTEM FOR INDUSTRIES.

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

Note: you are allowed to use web search and complete the assignment.

//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()
```