Team ID	PNT2022TMID47989
Project Name	Gas Leakage Monitoring and Alerting System for Industries

Assignment – 3

//Code for blinking LED//

```
import RPi.GPIO as GPIO  #Import Raspberry Pi GPIO library

from time import sleep  #Import the sleep function from the time module


GPIO.setwarnings(False)  #Ignore warning for now

GPIO.setmode(GPIO.BOARD)  #Use physical pin numbering

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)  #Set pin 8 to be an output pin

and set initial value to low (off)


while True:  #Run forever

GPIO.output(8, GPIO.HIGH)  #Turn on

sleep(1) #Sleep for 1 Second

GPIO.output(8, GPIO.LOW)  #Turn off

sleep(1)  #Sleep for 1 second
```

//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()
```