Team ID	PNT2022TMID15548
Project Name	Gas Leakage Monitoring and Alerting System for Industries

Assignment – 3

1.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()
```

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