

TEAM ID	PNT2022TMID29330
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//**

```
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()
```