

ASSIGNMENT 3

Name: J. Sowndharya

Reg: no: 611419104083

Domain: IOT

Project Title: Gas Leakage Monitoring & Alerting System For Industries

Team Id: PNT2022TMID30401

Write Python code for blinking LED and Traffic lights for 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()
```

