

Gas Leakage Monitoring and Alerting System

Assignment-3

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PYTHON PROGRAM FOR LED BLINKING:

```
import GPIO.RPi as GPIO ##import GPIO library
import time
GPIO.setmode(GPIO.BOARD) ##use board pin numbering
GPIO.setup(11,GPIO.OUT) ##set 11th pin as output pin
while 1:
    GPIO.output(11,1) ## Turn on led
    time.sleep(1) ## 1 second delay
    GPIO.output(11,0) ## Turn off led
    time.sleep(1)
```

PYTHON PRORAM FOR TRAFFIC LIGHT:

```
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()
```

