

## ASSIGNMENT - 3

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Project Name	<b>Gas Leakage monitoring &amp; Alerting system for Industries</b>
Marks	<b>2marks</b>

### Python code for blinking LED in Raspberry Pi.

```
import RPi.GPIO as GPIO
import time

LED_PIN = 17

GPIO.setmode(GPIO.BCM)
GPIO.setup(LED_PIN, GPIO.OUT)

while True:
    GPIO.output(LED_PIN, GPIO.HIGH)
    time.sleep(1)
    GPIO.output(LED_PIN, GPIO.LOW)
    time.sleep(1)

GPIO.cleanup()
```

### Python code for Traffic Light in Raspberry Pi

```
import RPi.GPIO as GPIO
import time
import signal
import sys

def allLightsoff(signal, frame):
    GPIO.output(9, False)
    GPIO.output(10, False)
    GPIO.output(11, False)
    GPIO.cleanup()
    sys.exit(0)
    signal.signal(signal.SIGINT, allLightsoff)

while True:
    GPIO.output(9, True)
```

```
time.sleep(3)  
GPIO.output(10,True)  
time.sleep(1)  
GPIO.output(9,True)  
GPIO.output(10,True)  
GPIO.output(11,True)  
time.sleep(5)  
GPIO.output(11,True)  
GPIO.output(10,True)  
time.sleep(2)  
GPIO.output(10,False)
```