學號:405410117

姓名:郭紘安 Email: andy8766kuo@gmail.com

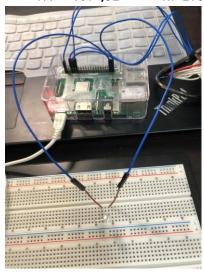
實驗名稱: Device driver (II)

## 實驗目的:

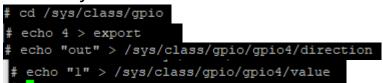
• Learn how to use GPIO

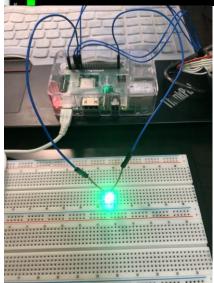
## 實驗步驟:

- ➤ Part 1-使 LED 燈泡發亮
- 設定硬體,把 LED 和電線插好



● 利用 Sysfs 來讓燈泡發亮





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## ➤ Part 2-讓 LED 燈可以持續閃爍

```
🚫 🖨 📵 demo.c (86 GB Volume ~/disk/Lab10-2) - gedit
            Ħ
 Open ▼
#include <stdlib.h>
#include<stdio.h>
void main(){
        FILE *p;
        p = fopen ("/sys/class/gpio/export","w");
        fprintf(p,"%d",4);
        fclose(p);
        p = fopen ("/sys/class/gpio/gpio4/direction","w");
        fprintf(p,"out");
        fclose(p);
        for(;;){
                 p = fopen("/sys/class/gpio/gpio4/value","w");
fprintf(p,"%d",1);
                 fclose(p);
                 sleep(1);
                 p = fopen("/sys/class/gpio/gpio4/value","w");
                 fprintf(p,"%d",0);
                 fclose(p);
                 sleep(1);
        }
```

## 心得:

學到如何使用 Pi 上的 GPIO,來讓 LED 燈泡發亮.