

Project 14: 4-digit Led segment display

```
pi@raspberrypi: ~/树莓派基础套件程序资料/第十四课/四位数码管/
pi@raspberrypi: ~/树莓派基础套件程序资料/第十四课/四位数码管 $ ls
4shuma.c
pi@raspberrypi: ~/树莓派基础套件程序资料/第十四课/四位数码管 $ nano guide14
pi@raspberrypi: ~/树莓派基础套件程序资料/第十四课/四位数码管 $ nano guide14
pi@raspberrypi: ~/树莓派基础套件程序资料/第十四课/四位数码管 $ nano 4shuma.c
pi@raspberrypi: ~/树莓派基础套件程序资料/第十四课/四位数码管 $ gpio readall
```

BCM	wPi	Name	Mode	V	Physical	V	Mode	Name	wPi	BCM
		3.3v			1	2		5v		
2	8	SDA.1	ALT0	1	3	4		5V		
3	9	SCL.1	ALT0	1	5	6		0v		
4	7	GPIO. 7	IN	1	7	8	1	ALT0	TxD	15
		0v			9	10	1	ALT0	RxD	16
17	0	GPIO. 0	IN	0	11	12	0	IN	GPIO. 1	1
27	2	GPIO. 2	IN	0	13	14			0v	
22	3	GPIO. 3	IN	0	15	16	0	IN	GPIO. 4	4
		3.3v			17	18	0	IN	GPIO. 5	5
10	12	MOSI	ALT0	0	19	20			0v	
9	13	MISO	ALT0	0	21	22	0	IN	GPIO. 6	6
11	14	SCLK	ALT0	0	23	24	1	ALT0	CE0	10
		0v			25	26	1	ALT0	CE1	11
28	17	GPIO.17	IN	0	51	52	0	IN	GPIO.18	18
30	19	GPIO.19	IN	0	53	54	0	IN	GPIO.20	20
BCM	wPi	Name	Mode	V	Physical	V	Mode	Name	wPi	BCM

```
pi@raspberrypi: ~/树莓派基础套件程序资料/第十四课/四位数码管 $ gcc 4shuma.c -o 4shuma -lwiringPi
pi@raspberrypi: ~/树莓派基础套件程序资料/第十四课/四位数码管 $ ls
4shuma 4shuma.c guide14
pi@raspberrypi: ~/树莓派基础套件程序资料/第十四课/四位数码管 $ sudo ./4shuma
^Cpi@raspberrypi: ~/树莓派基础套件程序资料/第十四课/四位数码管 $
```

Pic. 1

```
pi@raspberrypi: ~/...
GNU nano 2.2.6                               File: 4shuma.c

#include <wiringPi.h>
#include <stdio.h>
#define a 0
#define b 1
#define c 2
#define d 3
#define e 4
#define f 5
#define g 6
#define one 7
#define two 8
#define three 9
#define four 10

void display0()
{
    digitalWrite(a,HIGH);
    digitalWrite(b,HIGH);
    digitalWrite(c,HIGH);
    digitalWrite(d,HIGH);
    digitalWrite(e,HIGH);
    digitalWrite(f,HIGH);
    digitalWrite(g,LOW);

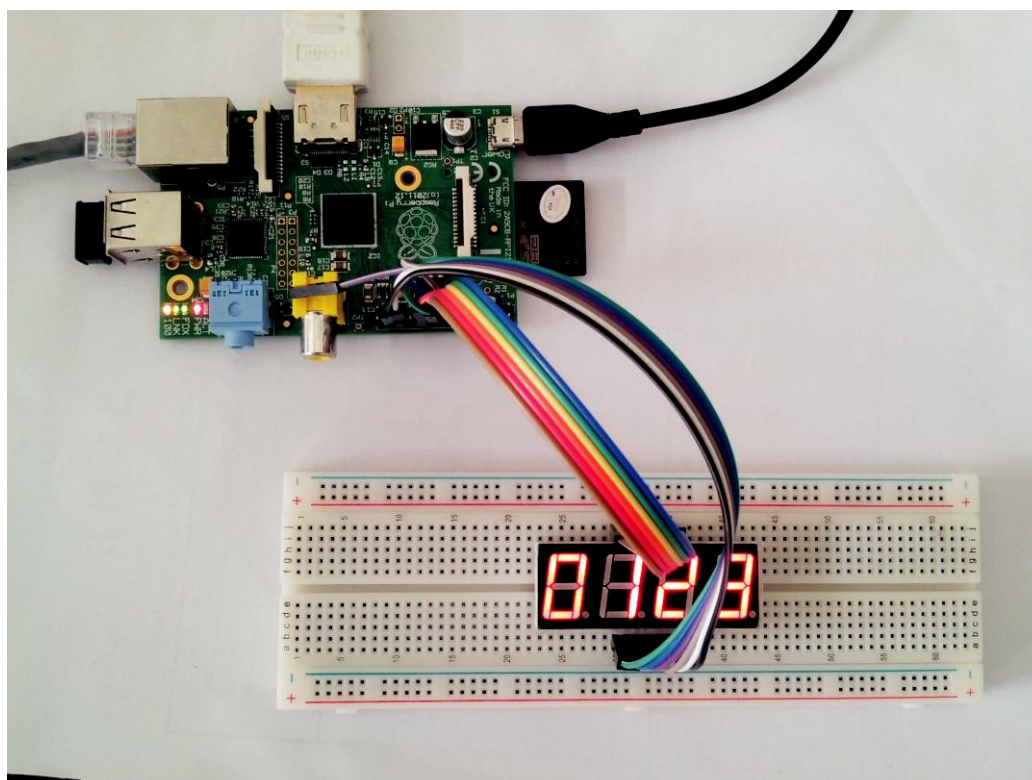
}

void display1()
{
    digitalWrite(a,LOW);
    digitalWrite(b,HIGH);

}

^G Get Help      ^O WriteOut      ^R Read File     ^Y Prev Page     ^K Cut Text      ^C Cur Pos
^X Exit          ^J Justify       ^W Where Is     ^V Next Page     ^U UnCut Text    ^T To Spell
```

Pic. 2



Pic. 3