

树莓派第十课 倾斜开关

```
pi@raspberrypi: ~/树莓派基础套件程序资料/第十课/倾斜开关/
开关pi@raspberrypi: ~/树莓派基础套件程序资料/第十课/倾斜开关 $ ls
qingxie.c
开关pi@raspberrypi: ~/树莓派基础套件程序资料/第十课/倾斜开关 $ nano qingxie.c
开关pi@raspberrypi: ~/树莓派基础套件程序资料/第十课/倾斜开关 $ nano qingxie.c
开关pi@raspberrypi: ~/树莓派基础套件程序资料/第十课/倾斜开关 $ 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	OUT	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

```
开关pi@raspberrypi: ~/树莓派基础套件程序资料/第十课/倾斜开关 $ gcc -Wall -o qingxie qingxie.c -lwiringPi
开关pi@raspberrypi: ~/树莓派基础套件程序资料/第十课/倾斜开关 $ ls
qingxie qingxie.c
开关pi@raspberrypi: ~/树莓派基础套件程序资料/第十课/倾斜开关 $ sudo ./qingxie
Raspberry Pi - Quick2Wire Analog Test
value=-1
value=-1
value=-1
value=-1
value=-1
value=-1
value=-1
```

图一

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

#include <stdio.h>
#include <wiringPi.h>
#include <pcf8591.h>

#define LED                6
#define Q2W_ABASE          120

int main (void)
{
    int value ;

    // Enable the on-board GPIO

    wiringPiSetup () ;

    // Add in the pcf8591 on the q2w board

    pcf8591Setup (Q2W_ABASE, 0x48) ;

    printf ("Raspberry Pi - Quick2Wire Analog Test\n") ;

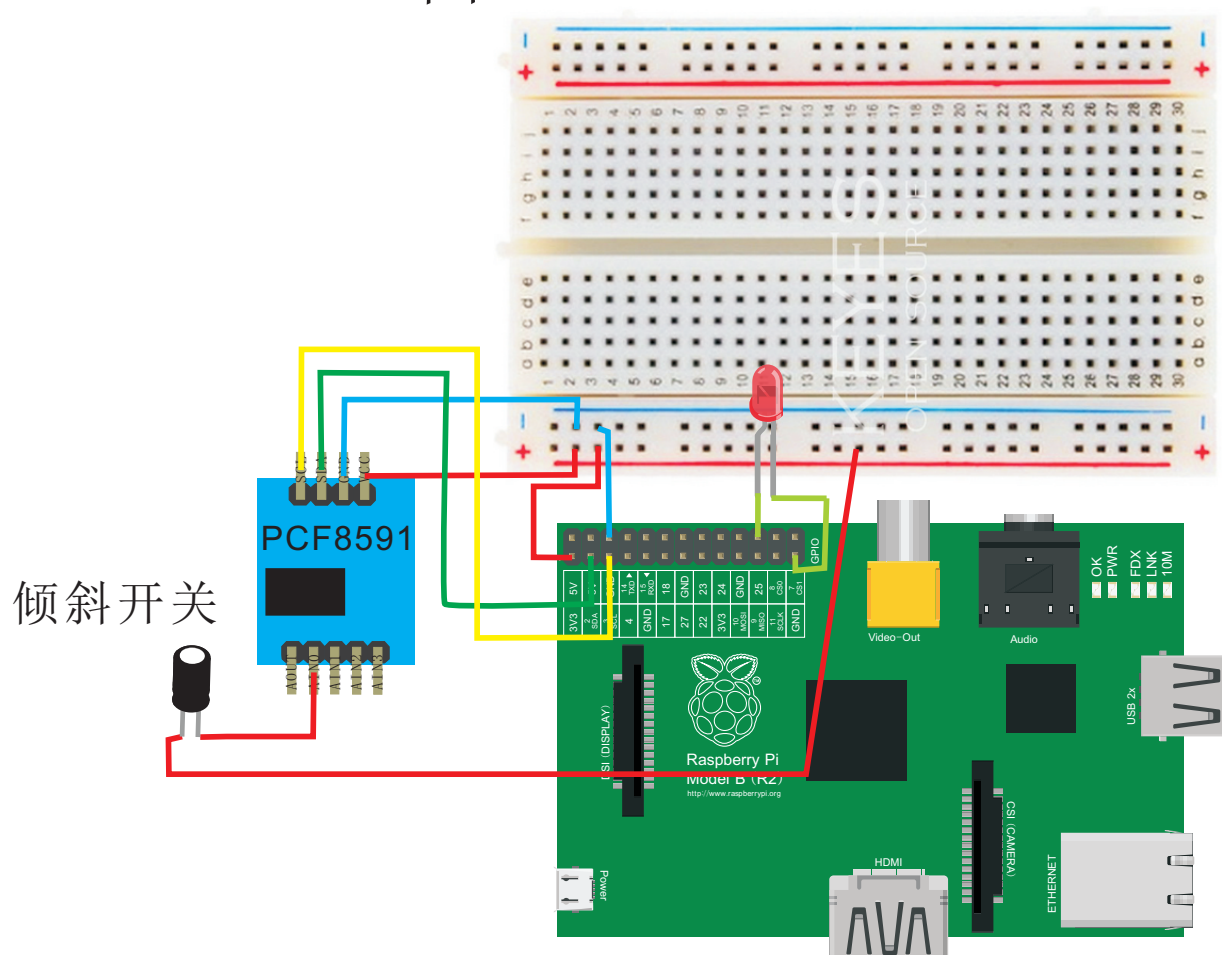
    // Setup the LED

    //pinMode (LED, PWM_OUTPUT) ;
    //pwmWrite (LED, 0) ;
    pinMode (LED, OUTPUT) ;
    digitalWrite (LED, LOW) ;

    for (;;)
    {
        value = analogRead (Q2W_ABASE + 0) ;
        //pwmWrite (LED, value * 4) ;
        printf("value=%d\n",value);
    }
}

[ Read 42 lines ]
^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
```

图二



图三