

10 roen rotary encoder

1 Project process:

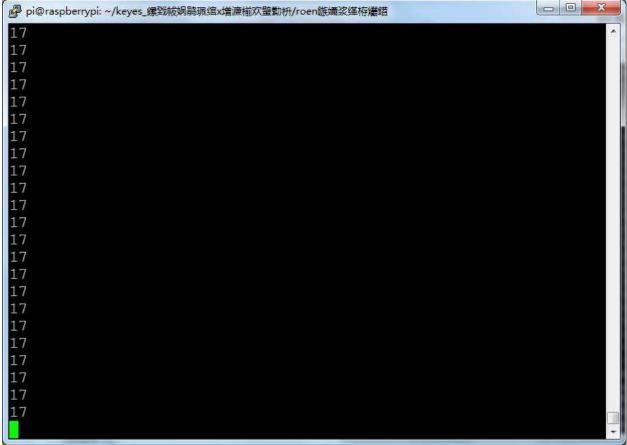
```
Pi@raspberrypi ~/keyes_树莓派高级版套件资料/roen旋转编码器 $ 1s Makefile roen.c pi@raspberrypi ~/keyes_树莓派高级版套件资料/roen旋转编码器 $ vi roen.c pi@raspberrypi ~/keyes_树莓派高级版套件资料/roen旋转编码器 $ make cc -c-o roen.o roen.c gcc roen.c -o roen-lwiringpi pi@raspberrypi ~/keyes_树莓派高级版套件资料/roen旋转编码器 $ 1s Makefile roen roen.c roen.o roen.o roen.c pi@raspberrypi ~/keyes_树莓派高级版套件资料/roen旋转编码器 $ 1s Makefile roen roen.c roen.o pi@raspberrypi ~/keyes_树莓派高级版套件资料/roen旋转编码器 $ sudo ./roen
```

2 Project source code:

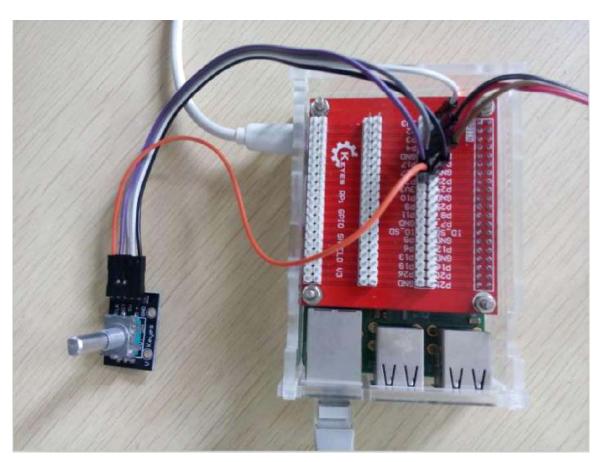
```
- 0 X
pi@raspberrypi: ~/keyes_螺致核妈鹃頭這x增廉補欢鹽動枡/roen鏃嫌浆缂栫爜鍣
#include <stdio.h>
#include <string.h>
#include <errno.h>
#include <stdlib.h>
#include <wiringPi.h>
#define
        SWPin
#define
                  3
        Roapin
#define
        RoBPin
                  2
static volatile int globalCounter = 0 ;
unsigned char flag;
unsigned char Last RoB Status;
unsigned char Current RoB Status;
void btnISR(void) //中断服务程序(ISR),按下按钮时出发中断,该中断服务的任>
务是对计数值进行清零
 globalCounter = 0;
void rotaryDeal(void)
"roen.c" 66L, 1489C
                                                     1,1
                                                                   Top
```

3 Project result

Rotate the rotary encoder clockwise, the numerical value decreases; rotate counterclockwise, the value increases; when you press the knob, the value returns to 0.



4 Project circuit connection:



```
Connection diagram

CLK----3

DT-----2

SW----0
+-----5V

GND-----GND
```