

```
;;程序编写 -天微电子销售部 李国营  
;;联系电话---0755-86156585 13417303720  
;;QQ : 308953176  
;;MSN:LGY12195@HOTMAIL.COM  
;;作成日期 : 07/12/30  
;;MCU=AT89S51  
;;OSC=12M
```

```
.....程序开始.....  
.....
```

```
DIO bit P1.0  
CLK bit p1.1  
STB bit p1.2
```

```
;;-----  
;;
```

```
;;定义显示缓冲区
```

```
YI EQU 30h  
ER EQU 31  
SAN EQU 32H  
SI EQU 33H  
WU EQU 34H  
LIU EQU 35H  
QI EQU 36H
```

```
;;-----  
;;
```

```
;;定义键盘缓冲区
```

```
KEY1 EQU 37H  
KEY2 EQU 38H  
KEY3 EQU 39H  
KEY4 EQU 3AH  
KEY5 EQU 3BH
```

```
ORG 0H
```

```
JMP MAIN
```

```
MAIN:
```

```
MOV A,#60H  
MOV SP,A
```

```
MOV R0,#30H  
MOV R1,#07H
```

```

FILL: MOV A,R1
      MOV @R0,A
      INC R0
      DJNZ R1,FILL
      SETB STB
      MOV A,#03H      ;;设置显示模式 7位 10段
      MOV R1,A
      CLR STB
      ACALL DSOUT
      SETB STB
      ACALL LOOP

XUNHUAN:
      ACALL KEYSKAN  ;;读键盘，在此只举例识别3键
      MOV A,#KEY1
      MOV R0,A
      CJNE @R0,#01H,TIAO  ;;判键seg1-k1
      MOV A,#01H
      MOV YI,A
TIAO: INC R0
      CJNE @R0,#01H,TIAO1  ;;判键seg3-k1
      MOV A,#01H
      MOV ER,A
TIAO1: INC R0
      CJNE @R0,#08H,TIAO2  ;;判键seg6-k1
      MOV A,#01H
      MOV SAN,A
TIAO2: ACALL LOOP
      AJMP XUNHUAN

LOOP:
      SETB STB
      MOV A,#44H      ;;数据设置--固定地址，写显示寄存器模式
      MOV R1,A
      CLR STB
      ACALL DSOUT
      SETB STB
      ACALL LOOP1
      MOV A,#8BH      ;;开显示，亮度居中
      MOV R1,A
      CLR STB
      ACALL DSOUT
      SETB STB

```

RET

```
;-----  
LOOP1: MOV DPTR,#TABLE  
      MOV A,#0C0H    ;;显示地址设定  
      CLR STB  
      ACALL DSOUT  
      MOV A,YI      ;;1  
      MOVC A,@A+DPTR  
      MOV R1,A  
      ACALL DSOUT  
      SETB STB  
  
      MOV A,#0C2H    ;;显示地址设定  
      CLR STB  
      ACALL DSOUT  
      MOV A,ER      ;;2  
      MOVC A,@A+DPTR  
      MOV R1,A  
      ACALL DSOUT  
      SETB STB  
  
      MOV A,#0C4H    ;;显示地址设定  
      CLR STB  
      ACALL DSOUT  
      MOV A,SAN     ;;3  
      MOVC A,@A+DPTR  
      MOV R1,A  
      ACALL DSOUT  
      SETB STB  
  
      MOV A,#0C6H    ;;显示地址设定  
      CLR STB  
      ACALL DSOUT  
      MOV A,SI      ;;4  
      MOVC A,@A+DPTR  
      MOV R1,A  
      ACALL DSOUT  
      SETB STB  
  
      MOV A,#0C8H    ;;显示地址设定  
      CLR STB  
      ACALL DSOUT
```

```

MOV A,WU    ;;5
MOVC A,@A+DPTR
MOV R1,A
ACALL DSOUT
SETB STB

```

```

MOV A,#0CAH    ;;显示地址设定
CLR STB
ACALL DSOUT
MOV A,LIU    ;;6
MOVC A,@A+DPTR
MOV R1,A
ACALL DSOUT
SETB STB

```

```

MOV A,#0CCH    ;;显示地址设定
CLR STB
ACALL DSOUT
MOV A,QI    ;;7
MOVC A,@A+DPTR
MOV R1,A
ACALL DSOUT
SETB STB

```

```
RET
```

```

;-----
;;写数据到驱动I C
DSOUT:

```

```

    MOV R0,#8
    MOV A,R1
    CLR C
LP:  CLR CLK
    RRC A
    JC ONE
    CLR DIO
    JMP NXT
ONE: SETB DIO
NXT: SETB CLK
    DJNZ R0, LP

```

RET

```

;-----
;;读数据到MCU
DSIN:
    MOV A,#8
    MOV R0,A
LOP:  CLR CLK
      NOP
      NOP
      JB DIO,SB
      CLR C
      JMP NEXT
SB:   SETB C
NEXT: RRC A
      SETB CLK
      DJNZ R0, LOP
      RET
;-----

```

```

KEYSCAN:
    MOV R1,#42H  ;;设置读键盘
    SETB DIO
    CLR STB
    CALL DSOUT
    SETB DIO
    CALL DSIN
    MOV KEY1,A  ;;读键盘数据放入缓冲区
    CALL DSIN
    MOV KEY2,A
    CALL DSIN
    MOV KEY3,A
    CALL DSIN
    MOV KEY4,A
    CALL DSIN
    MOV KEY5,A
    SETB STB
    RET

```

```

;-----
TABLE: DB  0EBH;0
       DB  88H;1

```

```
DB 0D3H;2  
DB 0DAH;3  
DB 0B8H;4  
DB 7AH;5  
DB 7BH;6  
DB 0E8H;7  
DB 0FBH;8  
DB 0FAH;9
```

END