#include<reg51.h>

#define lcd P1

sbit rs=P3^6;

sbit e=P3^7;

sbit relay=P0^0;

sbit s1=P2^0;

sbit s2=P2^1;

void delay (int);

void cmd (char);

void display (char);

void init (void);

void string (char \*);

void view (int);

int count=0;

int no[10]={48,49,50,51,52,53,54,55,56,57};

void delay (int d)

{

unsigned char i=0;

for(;d>0;d--)

{

for(i=250;i>0;i--);

for(i=248;i>0;i--);

}

}

void cmd (char c)

{

lcd=c;

rs=0;

e=1;

delay(5);

e=0;

}

void display (char c)

{

lcd=c;

rs=1;

e=1;

delay(5);

e=0;

}

void string (char \*p)

{

while(\*p)

{

display(\*p++);

}

}

void view (int n)

{

cmd(0xc0);

display(no[(n/10)%10]);

display(no[n%10]);

}

void init (void)

{

cmd(0x38);

cmd(0x0c);

cmd(0x01);

cmd(0x80);

}

void main()

{

init();

string("counter........");

cmd(0xc0);

view(count);

while(1)

{

if(s1==1)

{

while(s2==0);

if(count!=99)

count=count+1;

while(s2==1);

view(count);

}

else if(s2==1)

{

while(s1==0);

if(count!=0)

count=count-1;

while(s1==1);

view(count);

}

else if(count==1)

relay=0;

else if(count==0)

relay=1;

}

}