```
#include<reg51.h>
#define kam P1
#define kam P0

Void lcd_initi();
Void lcd_dat(unsigned char a );
Void lcd_cmd(unsigned char b );
Void delay(unsigned int n);
Void display(unsigned char s, unsigned char r)  ;
Sbit rs=P2^0;
Sbit rw=P2^1;
Sbit en=P2^2;

Sbit Fan=P0^0;
Sbit Light=P0^1;
Sbit TV=P0^2;

Int o=0;
Int r=0;
//unsigned   char Charin;
Char s[ ];
Unsigned int l;
Unsigned int w;
Int j=0;
Unsigned char *str;
Unsigned char *Charin;
Unsigned char *p;
Void delay(int time)
{
```

```
Unsigned int i,j;
For(i=0;i<time;i++)
For(j=0;j<1275;j++);
}

Void Serialwrite(char byte)
{
  SBUF=byte;
  While(!TI);
  TI=0;
}

Void Serialprintln(char *p)
{
  While(*p)
  {
    Serialwrite(*p);
    P++;
  }

}

Void Serialbegin()
{
   TMOD=0x20;
   SCON=0x50;
   TH1=0xfd;
   TR1=1;
}
```

```
Void display(unsigned char *s, unsigned char r)
{
  Unsigned int w;
For(w=0;w<r;w++)
{
Lcd_dat(s[w]);
}
}

Void display1(unsigned char *s, unsigned char r)
{
Unsigned int w;
For(w=0;w<r;w++)
{
Lcd_dat(*s);
S++;
}
}




Void lcd_initi()
{
Lcd_cmd(0x01);
Delay(10);
Lcd_cmd(0x38);
Delay(10);
Lcd_cmd(0x06);
```

```
Delay(10);
Lcd_cmd(0x0c);
Delay(10);
}
Void lcd_dat(unsigned char dat)
{
Kam = dat;
Rs=1;
Rw=0;
En=1;
Delay(10);
En=0;
}

Void lcd_cmd(unsigned char cmd)
{
Kam=cmd;
Rs=0;
Rw=0;
En=1;
Delay(10);
En=0;
}



Void main()
{lcd_initi();
  P0=0x00;
```

```
 Serialbegin();
 Serialprintln(“System Ready...”);
Display(“System Ready...”,15);
 Delay(10);

L=0;
While(1)
 {
Lcd_cmd(0x80);
Delay(10);



While(!RI);
*Charin=SBUF;
*str=*Charin;
Lcd_cmd(0x01);
RI=0;
    If(*str==’a’)

    { lcd_cmd(0x01);
Display(“LIGHT ON”,8);

      Light=1;
      Serialprintln(“LIGHT ON”);
      Delay(50);
    }
    Else if(*str==’b’)

    {
```

```
Lcd_cmd(0x01);
display("LIGHT OFF",9);
       Light=0;
       Serialprintln("LIGHT OFF");
       delay(50);
     }

      else if(*str=='c')
    { lcd_cmd(0x01);
display("FAN ON",6);
       Fan=1;
       Serialprintln("FAN ON");
       delay(50);
     }

      else if(*str=='d')
    {lcd_cmd(0x01);
       display("FAN OFF",7);
       Fan=0;
       Serialprintln("FAN OFF");
       delay(50);
     }
        else if(*str=='e')
    {lcd_cmd(0x01);
       display("TV ON",5);
       TV=1;
       Serialprintln("TV ON");
       delay(50);
     }
```

```
      else if(*str=='f')
    {lcd_cmd(0x01);
     display("TV OFF",6);
     TV=0;
     Serialprintln("TV OFF");
     delay(50);
    }
    }
    str=0;
}
```