```
#include<reg51.h>
     sbit load1= P1^0;
     sbit load2= P1^1;
 3
    sbit load3= P1^2;
 4
    sbit load4= P1^3;
    void main()
 7
 8
     unsigned char X;
 9
    SCON=0X50;
10
    TMOD=0X20;
11
    TH1=-3;
12
    TR1=1;
13
      while(1)
14
       {
15
           while (RI==0);
16
           X=SBUF;
           SBUF=X;
17
18
           while (TI==0);
19
           TI=0;
20
           RI=0;
           if (X=='1')
21
22
           load1=1;//load1 is off
23
24
          if (X=='2')
25
26
27
            load1=0;//load1 is on
28
29
            if(X=='3')
30
             load2=1;//load2 is off
31
32
33
              if (X=='4')
34
35
              load2=0;//load 2 is on
36
              if (X=='5')
37
38
              load3=1;//load 3 is off
39
40
              if (X=='6')
41
42
43
              load3=0;//load 3 is on
44
              if (X=='7')
45
46
47
              load4=1;//load 4 is off
48
49
              if (X=='8')
50
51
              load4=0;//load 4 is on
52
53
              if (X=='0')
54
55
              load1=load2=load3=load4=1;//all load are on
56
57
               if (X=='9')
58
              load1=load2=load3=load4=0;//all loads are off
59
60
61
            }
```

62

}