```
1) Peogram to demo the elevator interface.
   #tinklude < stolio in)
  # willide < eigs 1 h>
   uniqued chal redata commandword at 0xe803;
   uneigned char adata PortA_at_0xe800;
   unigned char adata PortB-at-0xe801;
   unsigned chai xdata Present Floor, Requested Floor, Step=Oxfo
   unsigned long adata court, i;
   delay() &
    for (Chount: 0; Count<=4500; Count++);
   Reset () &
   Step = Step & Ox Of;
   Porta = Stèp;
   Step = Step 1 0xf0;
   Pout A = Step;
  GOUP () 3
  switch (Requested Floor)
   case 0x0d 8: while (Step<0xf3)
                  Step++;
                  Port A = Step;
                  delay ();
                  Reset ();
                  break;
  case OXOb: nohile (Step< Oxf6)
               Step ++;
               PortA : Step;
```

```
THE TAKE I SHEET IN THE STATE OF
 delay ();
 Reset ();
 busk',
are 0x07: while (Step< 0xf9)
           Step ++;
            Port A : Step;
            delay ();
                                                   () MARIEL ()
             Resetc);
             break;
  GoDown ()
                                          Regulation Places = Part B;
  Switch (Requested floor)
                            REGINERALLY FLOOR = REGINER TEAFLORE & P.X.C.
  care oxod: while (step > 0xf3) 32 ] (x) = 1
                             (Regulated Floor Chusenot Floor
                                                    (() d () dh
                Port A = Step;
                delay ();
                               Missist Floor - Regusstallow,
                break;
  (ase 0x0b: while (Step > 0xf6)
                                         Requested Flan: feetb;
             Step--;
              PortA = Step;
              delay ();
             Rust ();
              belak;
```

```
case 0xDe: while (Step>0xf0)
             Step--;
             Port A = Step;
             Reset ();
              belak;
 void main ()
  Command Word: 0x82;
  PortA: Oxfo;
  Plesent Floor = 0x0e;
  while (1) &
 Requestéer floor = Poet B;
  Requested floor = Requested floor & 0x0f;
 (Requested floor != 0x0f && Requested floor != Present floor)}
     'f (Requested Floor < Present Floor)
        danb ()?
      else
        (pBown();
      Present floor = Requisted floor;
      Requested Floor: PortB;
```