```
5. Program to demo the elevator interface.
                                 Chapagid I minut ; ford 200
It include a Stelio.h>
                                        F-4-63
# included reg 51.h>
  unsigned chas x data Command Word - at - 0 xe 803;
   unsigned chas x data PortA - at - 0x e 800;
   unsigned clas Adata Present Floor, Requested Floor, Step = 0xfo',
    usigned long x data Count, i;
    & Delay ()
          For (Count =0; Count <= 4506; Count +t);
         3
       Reset ()
                                    State D ( Englished Flow)
       5
          Step = Step & 6x of;
           port A = Steps
            Step = Step | 0xfo;
             Part A = Step')
          3
       GOUPLO
        Switch (Requested floor) ( ) was
         case oxod; While (Sep < 0xf3)
       4
                      & (Step +++; 2) Shinks : 30 x0 = 10
                       PootA = Stepin
                       Delay ())
                         Reset(),
                         break!
            Case oxob; While ( Step 2 0x f6)
                          Steptti
                          PortA = Step;
                           Delay ();
                         Reset ();
                         break ;
```

```
case oxo7; while (Step Coxf9)
             5
                 Step++:
                   Reset (); it to a Jotol x
                   break ;
         3
   Go Down ()
       Switch (Requested Floor)
         case oxod' while (Step > 0×13)
                        8 Step - - 19tx0/90+2 = 90=2
                         Post A = Step;
                         Delay ();
                      Reset Co; (sould be started ) do
          case ox De: While (Step > 0xfo)
                          PortA = Step;
                          Delay ();
                    Reset();
                         break;
               3
             3
```

```
Void main ()
 3
   Command Word = 0x82;
        Port A = 6xfo')
        Present Floor = 0x00;
         While (1)
        2
          Requested FLOOR - proeg Port B;
           Requested Place = Requested Floor 3 0x of;
         18 (Requested Floor 1 = 0x0f 82 Requested floor 1 = Present Floor)
           fit (Lequested Floor & present Floor)
                       GOUPCS;
                else
                   Go Down () j
                Presentfloor = Requested Floor;
                  29
                   Requested $1000 = pootB
                 0
```