```
program to demo the elevator interface
 Hinclude Tstolio. 4>
5) #include Treg51:4>
  uniqued charxdata commandword _at- 0xe803;
 unsigned charxdat a Port A_ at_ 0xc 800;
  uniqued charadata Port B = at_ 0xe801;
  uneigned charxdada Prusud Floor, Requised floor,
   step = 0xf0;
   unsigned long soluta loud, i:
   Delay ()
   for (count = 0; count = 4500; count ++);
   Rust () ( ) tour
 Step = step 40 x Of;
    Port A = Step;
   step = step ( 0 xf 0;
   Port A = step; 948
   60 Up () : () pools
     switch (Requisted floor)
```

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(ax 0x0d: while (3kp<0xf3)
                  steptt; but a Moulson
PortA = step;
       Delay () jobs doub brigger,
       mugned charadata isol so at Ove801;
. Assylowanips, 18817 Rust () intertable binging
                  bruale; 070 - AHA
        Case Oxatto 0x06: while (Step (0xf6)
                   step++; Opple
                 Port A = step;
                  Delay ();
                  ruset (); () 600
                   break is got a got
     case 0x07:
                while (SHO < Ox fq)
                   step = step | 0x+>0;
                     Step ++ A tran
                Port A = step;
                 Delay ();
                  Rusit ();
break;
```

```
(noDown ()
     switch ( Requisted floor)
     (oux Ox Od: while (step> 0xf3)
              8 tep - - , (1) MARN
            Port A = step
 10x0 + 1832 9 10 Delay (5); 1992 9 104 104 1050
(1931) bot cursos 4 of 70 co; (300) botanous) ju
              braak:
   (are 0x0b: while (step>0xf6)
                1 Step --;
                 Port A = step;
        2990. Abdrew Pelay ();
          ruset ();
break;
care 0x0c. while (step >0xF0)
                    1 Styp - - ;
      18MIACSIE?
               - pord A = 8440;
                  Delay ();
              7 Reset ();
                 break; 3 J
```

Void main U command word = 0x82; PortA = 0xf0; Prusent Floor = 0x0e; while (1) K Requised floor = Port B; Requested floor - Requested floor of 0x01. ib (frequested floor! = 0x OF the Really ted floor) Present floor ) < 16 (Requisted floors present floor) Group(); GoDown (); presentfloor = Riquested floor; Requested Floor = Ports; Vighnesh chandrashekha 1BM1905182 Q120 0 1999 - M TRACT CO.