Vaehwarth Kiran . S 1BM19CS187 Date: Program to dome the elevator interface. #include <oldio. h > #include <reg 51.h> angigned charxdata Command Word at _ 0xe 803; unsigned charxdataPort A - at - 0xe 800; ansigned charxdata Port B at 0xe801; uneigned that x data Pregent Floor, Requested Floor, Step = 0xfo; uneigned longx data Count, i; Delay () for (count = 0; count <= 4500; count ++); heget () Step = Step & Ox Of; Port A = Step; Step = Step Oxfo; Port A = Step;

}

```
GOUP ()
 switch (Requested Floor)
    case oxod: while (Step < 0xf3)
       Step ++;
       Port A = Step;
        Reget ();
        break:
 case 0x06: while (Step < 0xf6)
       Port A = Step;
        Delay ();
         Reset ().
       break;
case 0x07: while (Step < 0xf9)
       Step++;
```

```
Part A = Step;
   Delay ();
    Reget ();
   break;
Golown ()
 Switch (Requested Floor)
   cage oxod: while (Step > 0xf3)
        Step --;
Port A = Step;
        Delay ();
        Regot ():
         break;
cage 0x06: while (step>0xf6)
          Port A = Step:
           Delay ();
```

Roset (); break; cace Oxoe: while (Step > 0xfo) Step - -; Port A = Step; Delay (); Void main () Commandword = 0x82; PortA = 0xfo; Present Floor = 0x0e; whole (1) I Requested Floor = Port B; Requested Floor = Requested Floor & C

-	if (Requested Floor 1 = 0x of & & Requested Floor
	if (Requested Floor 1 = 0x0f & & Requested Floor 1 = Present Floor)
-	if (Requested Floor & Present Floor)
	Goupe:
	else
	GoDown ();
	Present Floor = Requested Floor;
	2
	RequestedFloor = PortB;
	7
	5

