STUDENT'S NAME		TOTAL MARKS OBTAINED
CLASS	SUBJECT	
ROLL NO.	DATE	

Program to demo the elevator interface

```
#include <stdio.h>
#include <reg51.h>
unsigned char xdata CommandWord _at_ 0Xc803

unsigned char xdata PortA _at_ 0Xc800;
unsigned char xdata PortB _at_ 0Xc801;
unsigned char xdata Presentfloor, Requested Floor,
                    stem = 0xf0

~~stop = 0xf0~~

~~void~~
unsigned long xdataCount, i;

delay()
{
  for (Count = 0; Count <= 4500; Count ++)
  {

  }
}
```

STUDENT'S NAME		TOTAL MARKS OBTAINED
CLASS	SUBJECT	
ROLL NO.	DATE	

```
Reset()
{
   step = step & 0x0f
   portA = step;
   step = step | 0xf0
   portA = step;
}
Group()
{
   switch (requestedfloor)
   {
      case 0x0d: while(step<0xf3)
                 {
                    step++;
                    portA = step;
                    delay();
                 }
                 reset();
                 break

      case 0x0b: while(step<0xf6)
                 {
                    step++;
                    portA = step;
                    delay();
                 }
                 reset();
                 break;
```

STUDENT'S NAME | TOTAL MARKS OBTAINED
CLASS | SUBJECT
ROLL NO. | DATE

```
case 0x07:    while(step < 0xfa)
              {
                 step++;
                 portA = step
                 delay()
              }
              reset();
              break;

    }
}
 go

void godown()
{
  case 0x0d:  while(step > 0xf3)
              {
                 step--;
                 portA = step;
                 delay();
              }
              reset();
              break;


  case 0x0b:  while(step > 0xf6)
              {
                 step--;
                 port = step
                 delay():
              }
              reset();
              break;
```

STUDENT'S NAME		TOTAL MARKS OBTAINED
CLASS	SUBJECT	
ROLL NO.	DATE	

```
case 0x0c: while(step > 0xf0)
           {
              step--;
              portA = step;
              delay();
           }
           reset();
           break;
     }
}

void main()
{
   CommonWord = 0x82;
   portA = 0xf0;
   presentfloor = 0x0e;
   while(1){
      Requestedfloor = portB
      Requestedfloor = Requestedfloor & 0x0f;

   if ( requestedfloor != 0x0f && requestedfloor
                                  != presentfloor){


      if (Requested floor < Present floor)
            goup();

      else
            godown();
      presentfloor = requestedfloor;
   }requestedfloor = portB
}
```