Elevator program

```
#include<stdio.h>
#include<reg51.h>
unsigned char xdataCount _at_ 0xe803;
unsigned char xdataportA _at_ 0xe800;
unsigned char xdatdportC _at_ 0xe801;
"              " xdataPresentfloor, Requiredfloor,
                        Step = 0xf0
unsigned long xdataCount = 1;
char PortA, PortB;
 int count;
delay (){
for (count=0; count<=4500; count++);
{
reset (){
step = step & 0x0f;
 portA = step;
step = step | 0xf0;
portB = step;
{
 Group ():
{ Switch(requiredfloor)
{ case 0x0d : while (step<0xf3)
 { step++;
 portA = step;
 delay ();
{ reset ();
 break;
case 0x0b : while (step<0xf6)
{ step++;
  portA = step;
  delay();
{ reset();
  break;
```

store
67

```
case 0x07 : while (step <0x09)
{ step++ ;
  portA = step;
  delay ();
} reset();
 break ;
}}
Godown()
{ switch(requested floor)
{ case 0x0d : while (step > 0xf3)
 { step--;
   portA = step;
   delay();
 } reset();
 break;
case 0x0b : while (step > 0xf6)
 { step--;
   portA = step;
   delay();
 } reset();
 break;
case 0x0e : while (step > 0xf0)
  { step--;
    portA = step;
    delay();
  } reset();
  break;
 }}
 void main()
{ char command = 0x82;
 char portA, portB, requested floor, present floor;
```

store
67

```
port A = 0xf0;
preentfloor = 0x0e;
while(1)
{ requestedfloor = portB;
  "       "    = requestedfloor & 0x0f;
if (requestedfloor <= ~~requst~~ preentfloor)
go up();
else
godown();
preentfloor = requestedfloor;
}
}
```