

Program to demo the elevator interface

```
#include <stdio.h>
```

```
#include <reg 51.h>
```

```
unsigned char readdata Command word - at  
- 0xc803;
```

```
unsigned char readdata Port A - at 0xc80a;
```

```
unsigned char readdata Port B - at 0xc80f;
```

```
unsigned char readdata presentation, Requested  
floor, stop - up
```

```
unsigned long readdata Count 1;
```

```
Relay ()
```

```
{  
for (Count = 0; Count <= 6500; Count++)  
return 0;  
}
```

```
Reset ()
```

```
{  
Step = step 2 0xc0f;  
Port A = step;  
Step = step 1 0xc0a;  
Port A = step;  
return 0;  
}
```

```
Count ()
```

```
{  
Switch (Requested Floor)  
{  
case 0x0d: while (Step < 0xf3)  
{  
Step++;  
}
```

```

    Port A = Step;
    Delay (1);
}
Reset (1);
break;
case 0x06 : while (Step < 0x06)
{
    Step++;
    Port A = Step;
    Delay (1);
}
Reset (1);
break;
case 0x07 : while (Step < 0x07)
{
    Step++;
    Port A = Step;
    Delay (1);
}
Reset (1);
break;
}
return 0;
}
GoDown()
{
    Switch (Requested Floor)
    {
        case 0x00 : while (Step < 0x03)
            Step--;
        Port A = Step;
        Delay (1);
    }
}

```

}

Reset ();

break;

Case 0x0b : while (Step > 0x0f0)

{

Step --;

Port A = Step;

Delay ();

}

Reset ();

break;

Case 0x0c : while (Step > 0x0f0)

{

Step --;

Port A = Step;

Delay ();

}

Reset ();

break;

}

return 0;

}

void main ()

{

CommandWord = 0x82;

Port A = 0x0;

Present Floor = 0x0;

while (1) {

Requested Floor = Port B;

Requested Floor = Requested Floor & 0x0f;

if (Requested floor != 0 or 1 & Requested floor != Present Floor)

if (Requested Floor > Present Floor)

Group (C);

else

Go Down (C);

Present Floor = Requested Floor;

}

Requested Floor = Part B;

}

}