



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

```
#include <reg51.h>
```

```
unsigned char xdata CommandWord - at - 0x0803;
```

```
unsigned char xdata Port A - at - 0x0800;
```

```
unsigned char xdata Port B - at - 0x0801;
```

```
unsigned char xdata PresentFloor, RequestedFloor, Step = 0x0;
```

```
unsigned long xdata Count, i;
```

```
Delay()
```

```
{
```

```
for (Count = 0; Count <= 4500; Count++);
```

```
}
```

```
Reset()
```

```
{
```

```
Step = Step & 0x0f;
```

```
Port A = Step;
```

```
Step = Step | 0x10;
```

```
Port A = Step;
```

```
}
```

```
Go Group()
```

```
{
```

```
switch (RequestedFloor)
```

```
{
```

```
case 0x00: while (Step < 0xf3)
```

```
{
```

```
Step++;
```

```
Port A = Step;
```

```
Delay();
```

```
}
```



```
Reset();  
break;
```

```
case 0x06: while(step < 0x6)
```

```
{
```

```
    step++;
```

```
    Port A = step;
```

```
    Delay();
```

```
}
```

```
Reset();
```

```
break;
```

```
case 0x07: while(step < 0x7)
```

```
{
```

```
    step++;
```

```
    Port A = step;
```

```
    Delay();
```

```
}
```

```
Reset();
```

```
break;
```

```
}
```

```
}
```

```
Gr0dawn1)
```

```
{
```

```
Switch (request Floor)
```

```
{
```

```
case 0x0d: while(step > 0x5)
```

```
{
```

```
    step--;
```

```
    Port A = step;
```

```
    Delay();
```

```
}
```

Reset();

break;

Case 0x0b: while (Step > 0x+6)

{

Step --;

Port A = Step;

Delay();

}

Reset();

break;

Case 0x0e: while (Step > 0x+0)

{

Step --;

Port A = Step;

Delay();

}

Reset();

break;

}

}

Void main()

{

CommandWord = 0x82;

Port A = 0x+0;

PresentFloor = 0x0e;

while(1)

{

RequestedFloor > Port B;

RequestedFloor = RequestedFloor & 0x0f;

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if (RequestedFloor != 0) of & RequestedFloor 1 = PresentFloor

{

if (RequestedFloor < PresentFloor)

Go Up(1)

else

Go Down(1)

PresentFloor = RequestedFloor;

}

RequestedFloor = Port B;

}