MOHAMMED ABDUL HAMID
1BM19CS202
3-D

Page No.
Style
day 20

Elevator interface

```
#include <stdio.h>
#include <reg51.h>
unsigned char xdata Command word at 0xe803;
usnsigned char xdata portA at 0xe800;
unsigned char xdata PortB at 0xe801;
usingned char xdata present floor, Reaured floor, step=0xf0
usingned long ydata count,i;
Pelay()
 {
 for (count=0 ; count<=4500 ; count++);
}
Reset()
 {
 step= stel 0xf0;
 PortA= step;
  }
 GoUP() {
  switch ( Requested Floor) {
  case 0x0d: while (step<0xfe) {
step++;
PortA= step;
Pelay(); }
 Reset ();
 break;
```

Scanned with CamScanner

```
case 0x0b: while (step < 0xf6)
    {
step++;
Port A = step;
Delay();
};
Reset();
break;
case 0x07 : while (step < 0xf9)
 {
  step ++;
Port A = step;
  Delay();
 }
Rest();
break;
 } }
Go down() {
 switch (Requested Floor) {
case 0x0d : while (step > 0xf3) {
step--;
 Port A = step;
 Delay();
  break;
```

Scanned with CamScanner

```
case 0x0b : while (step > 0xf6)
{   step--;
    PortA = step;
    Delay();
}
Reset()
    break;
case 0x02 : while (step > 0xf0) {
step--;
PortA = step;
Delay(); }
Reset();
break;
}
void main() {
    Command word = 0x82;
PortA = 0xf0;
Present Floor = Port B;
Requested Floor = Requested Floor & 0x0f;
if (Requested Floor != 0x0f && Reveled Floor != Present Floor) {
if (Requested Floor < Present Floor)
            goUP();
    else    goDown();
        Present Floor = Requested floor;
            } Requested Floor = Port B;
}
```

Fantastic

Scanned with CamScanner