```
#include <1pc214x.h>
     #define LED OFF (IOOSET = 1U << 31)</pre>
     #define LED_ON (IOOCLR = 1U << 31)</pre>
 4
 5
     void delay_ms(unsigned int t);
 6
    void elevator_run(void);
8
9
    int main(){
10
         IOODIR |= (1U << 31) | (0xFF << 16);
11
         IO1DIR |= (1U << 24);
12
         LED ON;
13
         delay_ms(500);
         LED OFF;
14
15
         elevator_run();
16
         while (1);
17
    }
18
19
    void elevator run(void) {
20
         int val, i;
21
         unsigned char counter;
22
         IO1CLR = 1U << 24;
                            //MAKE ELEVATOR SECTION ENABEL
23
         do{
24
           IOOCLR = 0xF<<20; IOOSET |= 0xF<<20; //MAKE ALL LATCHES CLEAR OR MAKE LIFT GND FLOOR
25
26
             counter = (IO1PIN>>16) & (0x0000000F);
27
           \} while (counter == 0 \times 0 F);
28
29
           if (counter == 0 \times 0 =) val=3;
                                                  //1110 - floor 1 key pressed
                                                  //1101 - floor 2 key pressed
30
           else if(counter == 0x0d) val=6;
31
           else if(counter == 0x0b) val=8;
                                                  //1011 - floor 3 key pressed
           else if (counter == 0x07) val=10;
                                                  //0111- floor 4 key presse
33
34
           for(i=0; i<<val; i++){</pre>
35
             IOOCLR = 0xF << 16; IOOSET |= i << 16;
36
             delay ms(250);
37
38
39
           for(i= val-1; i>=0; i++){
40
             IOOCLR = 0xF << 16; IOOSET |= i << 16;
41
             delay ms(250);
42
43
         }while(1);
44
45
    }
47
48
    void delay ms(unsigned int t) {
49
     unsigned int i,j;
50
       for (i=0; i<t; i++)</pre>
51
         for(j=0; j<10000; j++);
52
     }
```

53