#include "lpc214x.h"

#include "stdint.h"

unsignedinti,delay\_ms,segval;

unsigned char index, lcdval,row,keyscan,keyret,keynum=0, keypress,scanret = 0xFF;

unsigned char seg7[] =

{0x3f,0x06,0x5b,0x4f,0x66,0x6d,0x7d,0x07,0x7f,0x67,0x77,0x7c,0x39,0x5e,0x79,0x71,0x00,0x00,0x0};

unsigned char scan[]    = {0xEF,0xDF,0xBF,0x7F,0x00} ;

unsigned char keycode[]  = {0xEE,0xED,0xEB,0xE7,0xDE,0xDD,0xDB,0xD7,0xBE,0xBD,0xBB,0xB7,0x7E,0x7D,0x7B,0x77,0x00};

voidInitLPC(void)

{

PINSEL0 = 0x00L;

IO0DIR = 0XFFFFFFF0;

}

void Delay(unsigned intdms)

{ delay\_ms = dms;

while(delay\_ms> 0)

delay\_ms--;

}

voidGetKey()

{

       row=0;

       while(1)

       {

               IO0CLR = 0xFF;

               row&= 0x3;

               keyscan=scan[row];

               IO0SET = keyscan;

               Delay(2);

               keyret = IO0PIN;

               if (keyscan != keyret)

                   break;

               row++;

       }

for(i=0;i<0x10;i++)

       {

               if(keycode[i]==keyret)

                       keynum=i;

       }

       IO0CLR = 0xFF00;

       segval = seg7[keynum];

       segval<<= 8;

       IO0SET = segval;

}

void main(void)

{

       InitLPC();

       index=0;

while(1)

           GetKey();

}