#include<p18f4520.h>

#pragma config OSC=HS

#pragma config PWRT=OFF

#pragma config WDT=OFF

#pragma config DEBUG=OFF, LVP=OFF

void lcdcmd(unsigned char value);//Function Prototype declaration

void lcddata(unsigned char value);

void msdelay(unsigned int itime);

#define ldata PORTD //Declare ldata variable for PORTD

#define rs PORTCbits.RC0 //Declare rs variable for pin RB0

#define rw PORTBbits.RB1 //Declare rw variable for pin RB1

#define en PORTCbits.RC1 //Declare en variable for pin RB2

void main()

{

TRISC = 0x00; //Set direction of PORTD as output

TRISD=0X00; //set direction of PORTE as output

msdelay(50);

lcdcmd(0x38); //16x2 LCD

msdelay(50);

lcdcmd(0x0E);

msdelay(15);

lcdcmd(0x01); //clear Display screen

msdelay(15);

lcdcmd(0x06); //Increment cursor and shift right

msdelay(15);

lcdcmd(0x80); //Force cursor on first row first position

lcddata('S'); //Display character 'PS'

msdelay(50);

lcddata('P'); //Display character 'K'

msdelay(50);

lcddata('V'); //Display character 'K'

msdelay(50);

}

void lcdcmd (unsigned char value)

{

ldata=value; //Send the command value to PORTD

rs=0; //selection of command register of LCD

rw=0;

en=1; //Generate High to Low pulse on Enable pin

msdelay(10);

en=0;

}

void lcddata (unsigned char value)

{

ldata=value; //Send the command value to PORTD

rs=1; //selection of DATA register of LCD

rw=0;

en=1; //Generate High to Low pulse on Enable pin

msdelay(10);

en=0;

}

void msdelay (unsigned int itime)

{

int i,j;

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

for(j=0;j<135;j++);

}