***THIS IS REFERENCE ONLY!!***

#include <p18f4520.h>

#include <delays.h>

void Init\_LCD(void);

void W\_ctr\_8bit(char);

void W\_data\_8bit(char);

#define LCD\_DATA PORTD

#define LCD\_RS PORTBbits.RB1

#define LCD\_E PORTBbits.RB2

char MESS[] = ""

char MESS1[]= ""

char MESS2[]= ""

char MESS3[]= ""

char MESS4[]= ""

char MESS5[]= ""

char MESS6[]= ""

void main()

{

unsigned int n;

unsigned int i;

unsigned int a;

unsigned int r;

unsigned int d;

ADCON1 = 0x0F;

TRISA = 0b11000000;

TRISB = 0b11011000;

TRISC = 0b10000000;

TRISD = 0;

TRISE = 0b0110;

PORTA = 0b00000000;

PORTB = 0b11010110;

PORTC = 0b01111111;

PORTE = 1;

a=PORTCbits.RC7;

n=PORTEbits.RE1;

i=PORTEbits.RE2;

r=PORTBbits.RB3;

Init\_LCD();

if(a==0)

{

PORTAbits.RA0 = 1;

PORTAbits.RA3 = 1;

PORTBbits.RB5 = 1;

PORTAbits.RA5 = 0;

PORTBbits.RB0 = 0;

PORTC = 0b00100000;

W\_ctr\_8bit(0b10000000);

for (d=0; MESS[d]!=0; d++)

W\_data\_8bit(MESS[d]);

W\_ctr\_8bit(0b11000000);

for (d=0; MESS2[d]!=0; d++)

W\_data\_8bit(MESS2[d]);

}

if(a==1)

{

PORTAbits.RA0 = 0;

PORTAbits.RA3 = 0;

PORTAbits.RA2 = 1;

PORTAbits.RA1 = 1;

PORTBbits.RB5 = 0;

PORTEbits.RE0 = 0;

PORTC = 0b00001001;

W\_ctr\_8bit(0b10000000);

for (d=0; MESS[d]!=0; d++)

W\_data\_8bit(MESS[d]);

W\_ctr\_8bit(0b11000000);

for (d=0; MESS1[d]!=0; d++)

W\_data\_8bit(MESS1[d]);

if(i==0)

{ PORTAbits.RA2 = 0;

PORTAbits.RA1 = 0;

PORTEbits.RE0 = 1;

PORTC = 0b00000011;

W\_ctr\_8bit(0b10000000);

for (d=0; MESS3[d]!=0; d++)

W\_data\_8bit(MESS3[d]);

W\_ctr\_8bit(0b11000000);

for (d=0; MESS4[d]!=0; d++)

W\_data\_8bit(MESS4[d]);

do

{PORTAbits.RA3 = 1;

PORTAbits.RA0 = 1;

PORTBbits.RB5 = 0;

do

{PORTAbits.RA4=~PORTAbits.RA4;

Delay100TCYx(5);

}while(PORTBbits.RB3!=0);

}while(PORTBbits.RB3!=0);

}

if(n==0) { PORTAbits.RA2 = 0;

PORTAbits.RA1 = 0;

PORTEbits.RE0 = 0;

PORTC = 0b00001111;

W\_ctr\_8bit(0b10000000);

for (d=0; MESS5[d]!=0; d++)

W\_data\_8bit(MESS5[d]);

W\_ctr\_8bit(0b11000000);

for (d=0; MESS6[d]!=0; d++)

W\_data\_8bit(MESS6[d]);

do

{PORTAbits.RA3 = 1;

PORTAbits.RA0 = 1;

PORTBbits.RB5 = 1;

do

{PORTAbits.RA4 = 1;

Delay10TCYx(5);

PORTAbits.RA4 = 0;

Delay10TCYx(5);

}while(PORTBbits.RB3!=0);

}while(PORTBbits.RB3!=0);

}

}

}

void Init\_LCD(){

W\_ctr\_8bit(0b00111000);

W\_ctr\_8bit(0b00001100);

W\_ctr\_8bit(0b00000110);

W\_ctr\_8bit(0b00000001);

W\_ctr\_8bit(0b00000010);

}

void W\_ctr\_8bit(char x){

LCD\_RS = 0;

LCD\_E = 1;

LCD\_DATA = x;

LCD\_E = 0;

Delay10TCYx(20);

}

void W\_data\_8bit(char x){

LCD\_RS = 1;

LCD\_E = 1;

LCD\_DATA = x;

LCD\_E = 0;

Delay10TCYx(20);

}