Write a program for interfacing button, LED, relay & buzzer

# include<p18f4520.h>

Void delay()

{

Unsigned int i;

For (i=0;i<30000;i++);

}

Void main()

{

Unsigned char i, key=0,P=0x01;

TRISB=0X00; // OUTPUT PORT B FOR LED

TRISDbits.TRISD0=1; // D0 as input for switch 1

TRISDbits.TRISD1=1; // D1 as input for switch 2

TRISDbits.TRISD2=0; // D2 as output for buzzer

TRISAbits.TRISA4=0; // A4 as output for Relay

While(1)

{

if(PORTDbits.RD0==0) Key=0 //if sw1 pressed

if(PORTDbits.RD1==0) Key=1 //if sw2 pressed

If (key==0)

{

P=0x80;

PORTAbits.RA4=0 // Relay OFF

PORTDbits.RD2=1 // Buzzer OFF

For (i=0;i<8;i++)

{

PORTB=P;

P=P>>1; // right shift

Delay();

}

}

If (key==1)

{

P=0x01;

PORTAbits.RA4=1 // relay ON

PORTDbits.RD2=0 // Buzzer ON

For (i=0;i<8;i++)

{

PORTB=P;

P=P<<1; // left shift

Delay();

}

}

