Experiment No: 06 – Interfacing of button,LED,relay & buzzer.

Marmik Moon

Roll No: 36

#include<P18F4550.h>

void delay(void);

void delay()

{

unsigned int i;

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

}

void main()

{

unsigned char i,key;

TRISB = 0x00; //LED pins as output

LATB = 0x00;

// PORTE = 0x80;

// SPPCON = 0x00;

// CCP1CON = 0x00;

// PORTE = 0x80;

TRISDbits.TRISD0 = 1; //set RD0 as input

TRISDbits.TRISD1 = 1; //set RD1 as input

TRISDbits.TRISD2 = 0; //set buzzer pin RD2 as output

TRISAbits.TRISA4 = 0; //set relay pin RA4 as output

while(1)

{

LATDbits.LD0 = 1;

LATDbits.LD1 = 1;

if(PORTDbits.RD0 == 0) key =0;

if(PORTDbits.RD1 == 0) key =1;

if(key == 0)

{

LATAbits.LATA4 = 1;

LATDbits.LATD2 = 0;

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

{

LATB = 1<<i;

delay();

LATB = 0x00;

delay();

}

}

if(key == 1)

{

LATAbits.LATA4 = 0;

LATDbits.LATD2 = 1;

for(i=7;i> 0;i--)

{

LATB = 1<<i;

delay();

LATB = 0x00;

delay();

}

}

}

}