**Interface With Relay,Buzzer,Switch,Led's.**

A. when button 1 is pressed relay and buzzer is turned ON and LED’s start chasing from left to right

B. when button 2 is pressed relay and buzzer is turned OFF and Led start chasing from right to left

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#include <p18f4520.h>

#include <delays.h>

#define BUZZER PORTAbits.RA3 //Buzzer connected to PORTA 3rd PIN

#define SWITCH0 PORTBbits.RB0 //Switch0 connected to PORTB 0th PIN

#define SWITCH1 PORTBbits.RB1 //Switch1 connected to PORTB 1st PIN

void main(void)

{

TRISA = 0x00; // RA3,OutPut Direction

TRISB = 0xff; // RB0,B1 Input Direction

TRISD = 0x00; // [RD0-3=LED's][RD4,5=Relay1,2] OutPut Direction

PORTD = 0xff; // [RD0-3=LED's][RD4,5=Relay1,2] Initialise as 0xff

while (1)

{

if(!SWITCH1) // Condition for 1st switch

{

while (1)

{

BUZZER =1; // Buzzer On

PORTD = 0x37; // (Relay1=1,Relay2=1) & (LED's sequence Left to Right=0111=7)

Delay10KTCYx(100); // 400mSDelay

PORTD = 0x3B; // (LED's sequence Left to Right=1011=B)

Delay10KTCYx(100);

PORTD = 0x3D;

Delay10KTCYx(100);

PORTD = 0x3E;

Delay10KTCYx(100);

if(!SWITCH0) // check if 2nd switch is pressed

break;

}

}

else if(!SWITCH0) // Condition for 2nd switch

{

while (1)

{

BUZZER =0; // Buzzer Off

PORTD = 0xcE; // (Relay1=0,Relay2=0) & (LED's sequence Right to Left=1110=E)

Delay10KTCYx(100);

PORTD = 0xcD; // LED's sequence Right to Left=1101=D

Delay10KTCYx(100);

PORTD = 0xcB;

Delay10KTCYx(100);

PORTD = 0xc7;

Delay10KTCYx(100);

if(!SWITCH1) // check if 1st switch is pressed

break;

}

}

}

}