**Source Code**

char set = 0;

const int delay\_B = 50;

const int delay\_A = 400;

void interrupt() {

if (INTCON.INTF) {

if (set == 0) {

PORTB.RB1 = 1;

PORTB.RB2 = 0;

Delay\_ms(delay\_B);

PORTB.RB1 = 0;

PORTB.RB2 = 1;

Delay\_ms(delay\_B);

set = 1;

} else {

PORTB.RB1 = 1;

PORTB.RB2 = 0;

Delay\_ms(delay\_A);

PORTB.RB1 = 0;

PORTB.RB2 = 1;

Delay\_ms(delay\_A);

set = 0;

}

INTCON.INTF = 0;

}

}

void main() {

TRISB = 0b00000001;

TRISA = 0b00000000;

CMCON = 0x07;

OPTION\_REG = 0b00000000;

INTCON = 0b11010000;

while (1) {

if (set == 0) {

PORTB.RB1 = 0;

PORTB.RB2 = 0;

PORTA = 0b00000001;

Delay\_ms(delay\_A);

PORTA = 0b00000010;

Delay\_ms(delay\_A);

} else {

PORTB.RB1 = 0;

PORTB.RB2 = 0;

PORTA = 0b00000001;

Delay\_ms(delay\_B);

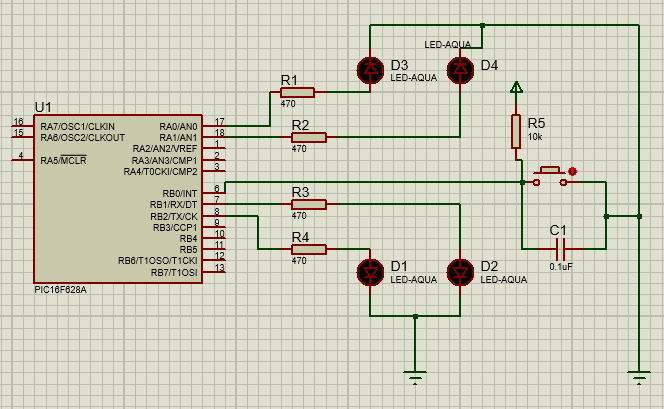
PORTA = 0b00000010;

Delay\_ms(delay\_B);

}

}}

**Circuit**

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