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/*
 * test.c
 *
 * Created: 06.12.2011 23:02:25
 *  Author: Dragon
 */

#include <avr/io.h>
#include <util/delay.h>
#include <stdio.h>
#include <avr/interrupt.h>



int array[13] = {0x10, 0x18, 0x1C, 0x1E, 0x1F, 0x0F, 0x07, 0x03, 0x01, 0x00, 0x04, 0x0C, 0x06};

int main(void)
{
    sei();  //Interrupts Aktivieren
    DDRA = 0x00;
    DDRB = 0xFF;
    DDRC = 0xFF;

    while(1)
    {
        switch (PINA)
        {

            case 0b00000001:
            {
            while ( PINA & (1<<PINA0) ) {
            PORTB = array[10];  //0b00000100
            PORTC = array[10];  //0b00000100
            //_delay_ms(1);
            PORTB = array[11];  //0b00001100
            PORTC = array[12];  //0b00000110
            //_delay_ms(1);
            PORTB = array[2];   //0b00011100
            PORTC = array[6];   //0b00000111
            //_delay_ms(1);
            PORTB = array[1];   //0b00011000
            PORTC = array[7];   //0b00000011
            //_delay_ms(1);
            PORTB = array[0];   //0b00010000
            PORTC = array[8];   //0b00000001
            //_delay_ms(1);
            PORTB = array[9];   //0b00000000
            PORTC = array[9];   //0b00000000
            //_delay_ms(1);
            }}

            case 0b00000010:
            {
            while ( PINA & (1<<PINA1) ) {
            PORTB = array[8];   //0b00000001
            //_delay_ms(1);
            PORTB = array[7];   //0b00000011
            //_delay_ms(1)
            PORTB = array[6];   //0b00000111
            //_delay_ms(1);
            PORTB = array[5];   //0b00001111
            //_delay_ms(1);
            PORTB = array[4];   //0b00011111
            //_delay_ms(1);
            PORTB = array[3];   //0b00011110
            //_delay_ms(1);
            PORTB = array[2];   //0b00011100
            //_delay_ms(1);
            PORTB = array[1];   //0b00011000
            //_delay_ms(1);
            PORTB = array[0];   //0b00010000
            //_delay_ms(1);
            PORTB = array[9];   //0b00000000
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            //_delay_ms(1);
            }}

            case 0b00000100:
            {
            while ( PINA & (1<<PINA2) ) {
            PORTC = array[0];   //0b00010000
            //_delay_ms(1);
            PORTC = array[1];   //0b00011000
            //_delay_ms(1);
            PORTC = array[2];   //0b00011100
            //_delay_ms(1);
            PORTC = array[3];   //0b00011110
            //_delay_ms(1);
            PORTC = array[4];   //0b00011111
            //_delay_ms(1);
            PORTC = array[5];   //0b0000111
            //_delay_ms(1);
            PORTC = array[6];   //0b00000111
            //_delay_ms(1);
            PORTC = array[7];   //0b00000011
            //_delay_ms(1);
            PORTC = array[8];   //0b00000001
            //_delay_ms(1);
            PORTC = array[9];   //0b00000000
            //_delay_ms(1);
            }}
        }
}
}
```