

```

/*****
* File:          main.c
* Project:       SP18 - Hello World
* Author:        Nicolas Meyertöns
* Version:       siehe main.h
* Web:           http://pic-projekte.de
*****/

#include <xc.h>

#define LED1      LATBbits.LB1
#define _XTAL_FREQ 2000000
#define LED2      LATBbits.LB5
#pragma config FOSC = INTIO67      // Internal oscillator block
#pragma config PWRTEN = ON         // Power up timer enabled
#pragma config BOREN = OFF         // Brown-out Reset disabled
#pragma config WDTEN = OFF         // Watch dog timer is always disabled
#pragma config MCLRE = EXTMCLR     // MCLR enabled
#pragma config LVP = OFF           // Single-Supply ICSP disabled

/*****
* Diverse Einstellungen zum PIC (IO, Takt, ...)
*/

void initPIC(void)
{
    TRISA = 0x00;
    TRISB = 0x01;           // RB0:Input (PB)
    TRISC = 0x20;           // RC6:Input (AN16)

    ANSELA = 0x00;         // All digital
    ANSELB = 0x00;         // ...
    ANSELC = 0x20;         // AN16 on

    OSCCON2bits.MFIOSEL = 0; // 111: 16 MHz
    OSCCONbits.IRCF2 = 1;    // 110:  8 MHz
    OSCCONbits.IRCF1 = 0;    // 101:  4 MHz
    OSCCONbits.IRCF0 = 0;    // 100:  2 MHz <-- aktiv
}

/*****
* Main Routine
*/

void main (void)
{
    initPIC();

    /*Shut OFF the LCD-Backlight*/
    LATCbits.LC2 = 1;

    /*Endlosschleife*/
    while(1)
    {

```

```
LED1 = 0;           // turn LED on
__delay_ms(250);   // delay 250 ms
__delay_ms(250);   // ...
LED1 = 1;           // turn LED off
__delay_ms(250);   // ...
LED2 = 0;           // turn LED on
__delay_ms(250);   // delay 250 ms
__delay_ms(250);   // ...
LED2 = 1;           // turn LED off
__delay_ms(250);
    }
}
```