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/*
 * File:   main.c
 */
#include <xc.h>

// PIC12F1822 Configuration Bit Settings
// CONFIG1
#pragma config FOSC = INTOSC    // Oscillator Selection (INTOSC oscillator: I/O function on CLKIN pin)
#pragma config WDTE = OFF       // Watchdog Timer Enable (WDT disabled)
#pragma config PWRTE = OFF      // Power-up Timer Enable (PWRT disabled)
#pragma config MCLRE = OFF      // MCLR Pin Function Select (MCLR/VPP pin function is digital input)
#pragma config CP = OFF         // Flash Program Memory Code Protection (Program memory code protection is disabled)
#pragma config CPD = OFF        // Data Memory Code Protection (Data memory code protection is disabled)
#pragma config BOREN = ON       // Brown-out Reset Enable (Brown-out Reset enabled)
#pragma config CLKOUTEN = OFF    // Clock Out Enable (CLKOUT function is disabled. I/O or oscillator function on the CLKOUT pin)
#pragma config IESO = OFF       // Internal/External Switchover (Internal/External Switchover mode is disabled)
#pragma config FCMEN = OFF      // Fail-Safe Clock Monitor Enable (Fail-Safe Clock Monitor is disabled)
// CONFIG2
#pragma config WRT = OFF        // Flash Memory Self-Write Protection (Write protection off)
#pragma config PLLEN = OFF      // PLL Enable (4x PLL disabled)
#pragma config STVREN = OFF     // Stack Overflow/Underflow Reset Enable (Stack Overflow or Underflow will not cause a Reset)
#pragma config BORV = LO       // Brown-out Reset Voltage Selection (Brown-out Reset Voltage (Vbor), low trip point selected.)
#pragma config LVP = OFF       // Low-Voltage Programming Enable (High-voltage on MCLR/VPP must be used for programming)

// クロック周波数指定
// __delay_ms()関数が使用する
#define _XTAL_FREQ 1000000

void main(void) {

    // PIC マイコン設定
    OSCCON = 0b01011010; // 内部クロック周波数を 1MHz に設定
    ANSELA = 0b00000000; // すべてのピンをデジタルモードに設定
    TRISA  = 0b00001000; // すべてのピンを出力モードに設定 (ただし RA3 ピンは常に入力モード)

    // LED を消灯する
    LATA5 = 0;

    // LED 点滅処理 (永久に繰り返す)
    while (1) {
        // LED を 950ms 消灯する
        LATA5 = 0;
        __delay_ms(950);
        // LED を 50ms 点灯する
        LATA5 = 1;
        __delay_ms(50);
    }

    // 以下の命令は実行されない
    return;
}

```