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/*****
* File:      Blinking_LED.c
* Author:    Malakabot
* Description: Parpadeo de LED_RED en el PIN_C6
* Hardware:  PIC18F2550, Cristal 20Mhz, MKBot v.3
* Created:   6 marzo 2016
*****/

#include <xc.h>
#pragma config PLLDIV = 5          // PLL Prescaler Selection bits (Divide by 5 (20 MHz oscillator input))
#pragma config CPUDIV = OSC1_PLL2 // System Clock Postscaler Selection bits ([Primary Oscillator Src: /1][96 MHz PLL Src: /2])
#pragma config FOSC = HSPLL_HS    // Oscillator Selection bits (HS oscillator, PLL enabled (HSPLL))
#pragma config LVP = OFF         // Single-Supply ICSP Enable bit (Single-Supply ICSP disabled)
#define _XTAL_FREQ 48000000      // Frecuencia de trabajo 48MHz (gracias al PLL)

void delay_ms(unsigned int milliseconds) // 0 - 65536ms
{
    int i;
    for (i=0; i<milliseconds; i++)
        __delay_ms(1); // Valor máximo 16ms para 48MHz
}

void main() {
    TRISbits.TRISC6=0; // PIN_C6 de salida
    while(1){
        LATCbits.LATC6 = 1;
        delay_ms(500);
        LATCbits.LATC6 = 0;
        delay_ms(500);
    }
}

```