```c
/*******************************************************************
 * File: Pulsador.c
 * Author: Malakabot
 * Description: Enciende LED_RED (PIN_C6) al pulsar BUTTON (PIN_C0)
 * Hardware: PIC18F2550, Cristal 20Mhz, MKBot v.3
 * Created: 21 agosto 2021
 *******************************************************************/

#include <xc.h>
#pragma config PLLDIV = 5
#pragma config CPUDIV = OSC1_PLL2
#pragma config FOSC = HSPLL_HS
#pragma config LVP = OFF
#define _XTAL_FREQ 48000000
#define LED_RED LATCbits.LATC6
#define BUTTON PORTCbits.RC0

void main() {

    ADCON1=0x0F; // Todos los puertos del PIC digitales
    TRISCbits.TRISC0=1; // PIN_C0 entrada (BUTTON)
    TRISCbits.TRISC6=0; // PIN_C6 salida (LED_RED)

    while(1){
        if (BUTTON==0)
        {
            LED_RED = 1;
        } else
        {
            LED_RED = 0;
        }
    }

}
```