```asm
        __CONFIG _CP_OFF & _WDT_OFF & _XT_OSC & _PWRTE_ON

    list p=16f84

    include <p16f84a.inc>


RESET org 0

    GOTO Inicio

    org 0x05


CONTADOR_A equ 0x0c

CONTADOR_B equ 0x0d

CONTADOR_C equ 0x0e


Inicio

    BSF STATUS, RP0

    CLRF TRISA

    movlw b'10000000' ;Definimos como entrada el RB7

    movwf TRISB

    BCF STATUS, RP0

    CLRF PORTA

    CLRF PORTB


Leer

    btfsc PORTB,7

    goto Antirrebote

    goto Leer


Antirrebote

    btfss PORTB,7

    goto Barrido
```

```
    goto Antirrebote


Barrido
    MOVLW b'00001'

    MOVWF PORTA

    CALL RETARDO_05S


    MOVLW b'00010'

    MOVWF PORTA

    CALL RETARDO_05S


    MOVLW b'00100'

    MOVWF PORTA

    CALL RETARDO_05S


    MOVLW b'01000'

    MOVWF PORTA

    CALL RETARDO_05S


    MOVLW b'10000'

    MOVWF PORTA

    CALL RETARDO_05S


    CLRF PORTA

    MOVLW b'00000001'

    MOVWF PORTB

    CALL RETARDO_05S


    MOVLW b'00000010'
```

```
MOVWF PORTB

CALL RETARDO_05S


MOVLW b'00000100'

MOVWF PORTB

CALL RETARDO_05S


MOVLW b'00001000'

MOVWF PORTB

CALL RETARDO_05S


MOVLW b'00010000'

MOVWF PORTB

CALL RETARDO_05S


MOVLW b'00100000'

MOVWF PORTB

CALL RETARDO_05S


MOVLW b'01000000'

MOVWF PORTB

CALL RETARDO_05S


MOVLW b'00100000'

MOVWF PORTB

CALL RETARDO_05S


MOVLW b'00010000'

MOVWF PORTB
```

```asm
        CALL RETARDO_05S

        MOVLW b'00001000'
        MOVWF PORTB
        CALL RETARDO_05S

        MOVLW b'00000100'
        MOVWF PORTB
        CALL RETARDO_05S

        MOVLW b'00000010'
        MOVWF PORTB
        CALL RETARDO_05S

        MOVLW b'00000001'
        MOVWF PORTB
        CALL RETARDO_05S

        CLRF PORTB
        MOVLW b'10000'
        MOVWF PORTA
        CALL RETARDO_05S

        MOVLW b'01000'
        MOVWF PORTA
        CALL RETARDO_05S

        MOVLW b'00100'
        MOVWF PORTA
```

```
        CALL RETARDO_05S


        MOVLW b'00010'

        MOVWF PORTA

        CALL RETARDO_05S


        MOVLW b'00001'

        MOVWF PORTA

        CALL RETARDO_05S

        goto Barrido


RETARDO_05S

        MOVLW 3

        MOVWF CONTADOR_C

        MOVLW 12

        MOVWF CONTADOR_B

        MOVLW 81

        MOVWF CONTADOR_A

LOOP

        DECFSZ CONTADOR_A, 1

        GOTO LOOP

        DECFSZ CONTADOR_B, 1

        GOTO LOOP

        DECFSZ CONTADOR_C, 1

        GOTO LOOP

        RETURN


        END
```
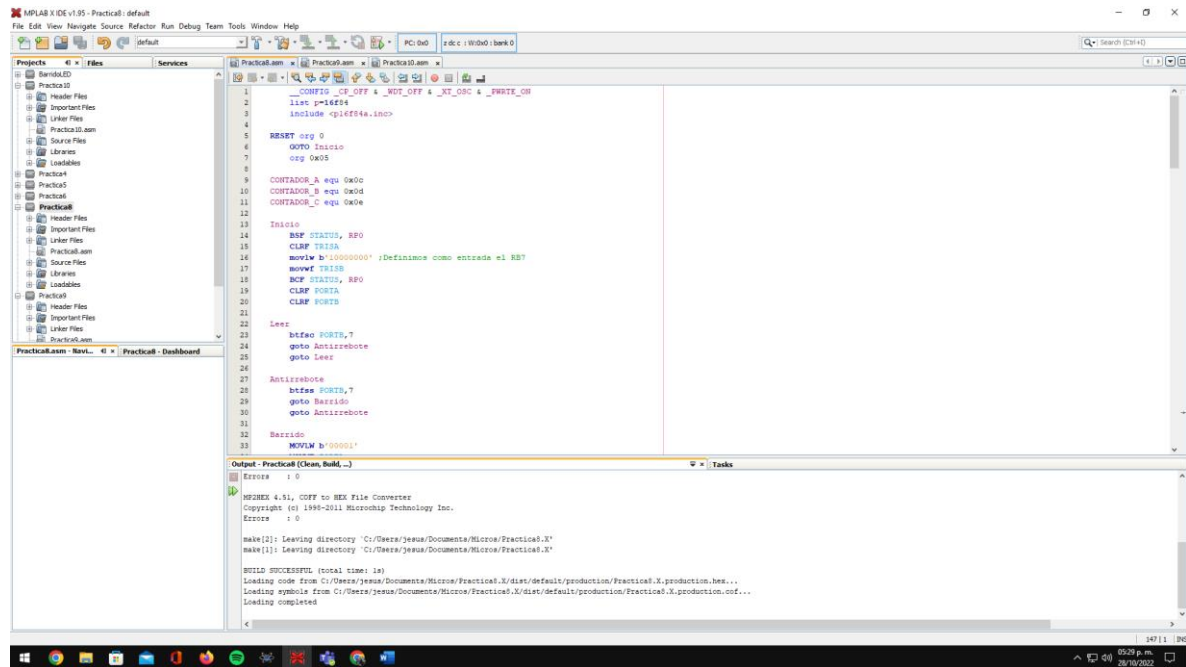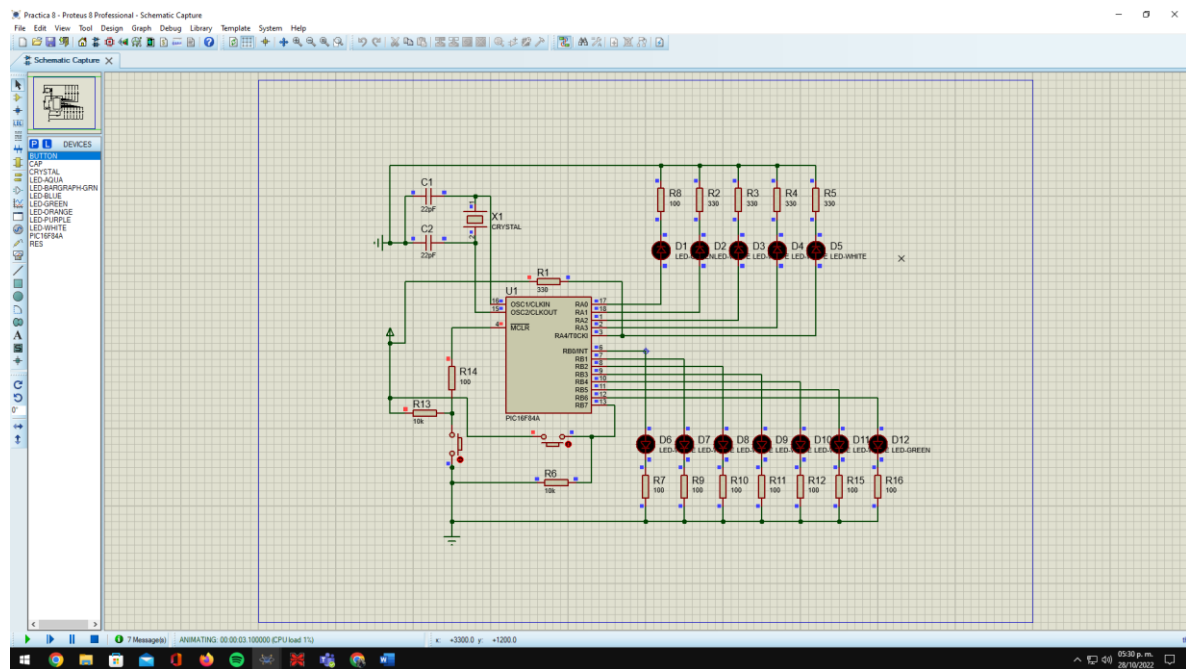
Compilado

Circuito sin simular

Circuito simulado **PIC16F84A**(4Mhz)