

```

list p=16F84A

#include P16F84a.inc

__CONFIG __CP_OFF & __WDT_OFF & __PWRTE_ON & __XT_OSC


RESET ORG 0x00

    GOTO Inicio

    ORG 0x04

    GOTO INTER

    ORG 0x05


CBLOCK 0x0C

C_Tempo
R_ContA
R_ContB
R_ContC
SAVE_W
SAVE_STATUS
ENDC


Inicio

    BSF STATUS, RP0

    MOVLW b'00001'

    MOVWF TRISA

    MOVLW b'00000001'

    MOVWF TRISB

    BSF OPTION_REG,6

    BCF STATUS,RP0

    MOVLW B'10010000'

    MOVWF INTCON

```

CLRF PORTA

CLRF PORTB

FairyTheme

;387ms BPM

CALL RE4; ////////// D4 //////////

CALL RE4; ////////// D4 //////////

CALL RE4; ////////// D4 //////////

CALL MI4; ////////// E4 //////////

CALL MI4; ////////// E4 //////////

CALL MI4; ////////// E4 //////////

CALL SOL4; ////////// G4 //////////

CALL SOL4; ////////// G4 //////////

CALL Sib4; ////////// Bb4 //////////

CALL RE5; ////////// D5 //////////

CALL MI5; ////////// E5 //////////

; =====

; =====

CALL Retardo_1ms

CALL LA5; ////////// A5 //////////

CALL RE5; ////////// D5 //////////

CALL Sib4; ////////// Bb4 //////////

CALL SOL4; ////////// G4 //////////

CALL SOL5; ////////// G5 //////////

CALL RE5; ////////// D5 //////////

CALL Sib4; ////////// Bb4 //////////

CALL SOL4; ////////// G4 //////////

CALL SOLb5; ////////// Gb5 //////////

CALL RE5; ////////// D5 //////////

CALL Sib4; ////////// Bb4 //////////

CALL SOL4; ////////// G4 //////////

CALL SOL5; ////////// G5 //////////

CALL RE5; ////////// D5 //////////

CALL Sib4; ////////// Bb4 //////////

CALL SOL4; ////////// G4 //////////

CALL Retardo_1ms

; =====

; =====

CALL SOL5; ////////// G5 //////////

CALL DO5; ////////// C5 //////////

CALL LA4; ////////// A4 //////////

CALL FA4; ////////// F4 //////////

CALL FA5; ////////// F5 //////////

CALL DO5; ////////// C5 //////////

CALL LA4; ////////// A4 //////////

CALL FA4; ////////// F4 //////////

CALL MI5; ////////// E5 //////////

CALL DO5; ////////// C5 //////////

CALL LA4; ////////// A4 //////////

CALL FA4; ////////// F4 //////////

CALL FA5; ////////// F5 //////////

CALL DO5; ////////// C5 //////////

CALL LA4; ////////// A4 //////////
CALL FA4; ////////// F4 //////////
;
;
CALL FA5; ////////// F5 //////////
CALL Sib4; ////////// Bb4 //////////
CALL SOL4; ////////// G4 //////////
CALL MI4; ////////// E4 //////////

CALL MI5; ////////// E5 //////////
CALL Sib4; ////////// Bb4 //////////
CALL SOL4; ////////// G4 //////////
CALL MI4; ////////// E4 //////////

CALL Mib5; ////////// Eb5 //////////
CALL Sib4; ////////// Bb4 //////////
CALL SOL4; ////////// G4 //////////
CALL MI4; ////////// E4 //////////

CALL MI5; ////////// E5 //////////
CALL Sib4; ////////// Bb4 //////////
CALL SOL4; ////////// G4 //////////
CALL MI4; ////////// E4 //////////
;
;
CALL MI5; ////////// E5 //////////
CALL LA4; ////////// A4 //////////
CALL FA4; ////////// F4 //////////
CALL RE4; ////////// D4 //////////

CALL RE5; ////////// D5 //////////

CALL LA4; ////////// A4 //////////

CALL FA4; ////////// F4 //////////

CALL RE4; ////////// D4 //////////

CALL REb5; ////////// Db5 //////////

CALL LA4; ////////// A4 //////////

CALL FA4; ////////// F4 //////////

CALL RE4; ////////// D4 //////////

CALL RE5; ////////// D5 //////////

CALL LA4; ////////// A4 //////////

CALL FA4; ////////// F4 //////////

CALL RE4; ////////// D4 //////////

; =====

; =====

CALL Retardo_1ms

CALL LA5; ////////// A5 //////////

CALL RE5; ////////// D5 //////////

CALL Sib4; ////////// Bb4 //////////

CALL SOL4; ////////// G4 //////////

CALL SOL5; ////////// G5 //////////

CALL RE5; ////////// D5 //////////

CALL Sib4; ////////// Bb4 //////////

CALL SOL4; ////////// G4 //////////

CALL SOLb5; ////////// Gb5 //////////

```

CALL RE5; ////////// D5 //////////
CALL Sib4; ////////// Bb4 //////////
CALL SOL4; ////////// G4 //////////

CALL SOL5; ////////// G5 //////////
CALL RE5; ////////// D5 //////////
CALL Sib4; ////////// Bb4 //////////
CALL SOL4; ////////// G4 //////////
CALL Retardo_1ms

; =====
; =====

GOTO FairyTheme

INTER

MOVWF SAVE_W
SWAPF STATUS,0
MOVWF SAVE_STATUS
;ZELDA SARIAS SONG

;_____

call Retardo_1s

CALL FA4_; ////////// F4 //////////
CALL LA4_; ////////// A4 //////////
CALL SI4_; ////////// B4 //////////
call Retardo_20ms

CALL FA4_; ////////// F4 //////////
CALL LA4_; ////////// A4 //////////
CALL SI4_; ////////// B4 //////////
call Retardo_20ms

CALL FA4_; ////////// F4 //////////

```

CALL LA4_; ////////// A4 //////////

CALL SI4_; ////////// B4 //////////

call Retardo_20ms

CALL MI5_; ////////// E5 //////////

call Retardo_10ms

CALL RE5_; ////////// D5 //////////

call Retardo_10ms

CALL SI4_; ////////// B4 //////////

call Retardo_10ms

CALL DO5_; ////////// C5 //////////

call Retardo_10ms

CALL SI4_; ////////// B4 //////////

call Retardo_10ms

CALL SOL4_; ////////// G4 //////////

call Retardo_10ms

CALL MI4_; ////////// E4 //////////

call Retardo_50ms

CALL RE4_; ////////// D4 //////////

call Retardo_10ms

CALL MI4_; ////////// E4 //////////

call Retardo_10ms

CALL SOL4_; ////////// G4 //////////

call Retardo_10ms

CALL MI4_; ////////// E4 //////////

CALL MI4_; ////////// E4 //////////

call Retardo_50ms

CALL FA4_; ////////// F4 //////////

call Retardo_10ms

CALL LA4_; ////////// A4 //////////
call Retardo_10ms
CALL SI4_; ////////// B4 //////////
call Retardo_20ms
CALL FA4_; ////////// F4 //////////
call Retardo_10ms
CALL LA4_; ////////// A4 //////////
call Retardo_10ms
CALL SI4_; ////////// B4 //////////
call Retardo_20ms
CALL FA4_; ////////// F4 //////////
call Retardo_10ms
CALL LA4_; ////////// A4 //////////
call Retardo_10ms
CALL SI4_; ////////// B4 //////////
call Retardo_20ms
CALL MI5_; ////////// E5 //////////
call Retardo_10ms
CALL RE5_; ////////// D5 //////////
call Retardo_10ms
CALL SI4_; ////////// B4 //////////
call Retardo_10ms
CALL DO5_; ////////// C5 //////////
call Retardo_10ms
CALL MI5_; ////////// E5 //////////
call Retardo_10ms
CALL SI4_; ////////// B4 //////////
call Retardo_10ms
CALL SOL4_; ////////// G4 //////////

CALL SOL4_; ////////// G4 //////////
call Retardo_50ms
CALL SI4_; ////////// B4 //////////
call Retardo_10ms
CALL SOL4_; ////////// G4 //////////
call Retardo_10ms
CALL RE4_; ////////// D4 //////////
call Retardo_10ms
CALL MI4_; ////////// E4 //////////
CALL MI4_; ////////// E4 //////////
call Retardo_50ms
CALL RE4_; ////////// D4 //////////
call Retardo_10ms
CALL MI4_; ////////// E4 //////////
call Retardo_10ms
CALL FA4_; ////////// F4 //////////
call Retardo_10ms
CALL SOL4_; ////////// G4 //////////
call Retardo_10ms
CALL LA4_; ////////// A4 //////////
call Retardo_10ms
CALL SI4_; ////////// B4 //////////
call Retardo_10ms
CALL DO5_; ////////// C5 //////////
call Retardo_10ms
CALL SI4_; ////////// B4 //////////
call Retardo_10ms
CALL MI4_; ////////// E4 //////////
CALL MI4_; ////////// E4 //////////

CALL MI4_; ////////// E4 //////////

CALL RE4_; ////////// D4 //////////

call Retardo_10ms

CALL MI4_; ////////// E4 //////////

call Retardo_10ms

CALL FA4_; ////////// F4 //////////

call Retardo_10ms

CALL SOL4_; ////////// G4 //////////

call Retardo_10ms

CALL LA4_; ////////// A4 //////////

call Retardo_10ms

CALL SI4_; ////////// B4 //////////

call Retardo_10ms

CALL DO5_; ////////// C5 //////////

call Retardo_10ms

CALL RE5_; ////////// D5 //////////

call Retardo_10ms

CALL MI5_; ////////// E5 //////////

CALL MI5_; ////////// E5 //////////

call Retardo_50ms

CALL MI4_; ////////// E4 //////////

CALL FA4_; ////////// F4 //////////

CALL MI4_; ////////// E4 //////////

CALL RE4_; ////////// D4 //////////

```
CALL RE4_; ////////// D4 //////////
```

```
call Retardo_50ms
```

```
FIN_INTER
```

```
SWAPF SAVE_STATUS,0
```

```
MOVWF STATUS
```

```
SWAPF SAVE_W,1
```

```
SWAPF SAVE_W,0
```

```
BCF INTCON,INTF
```

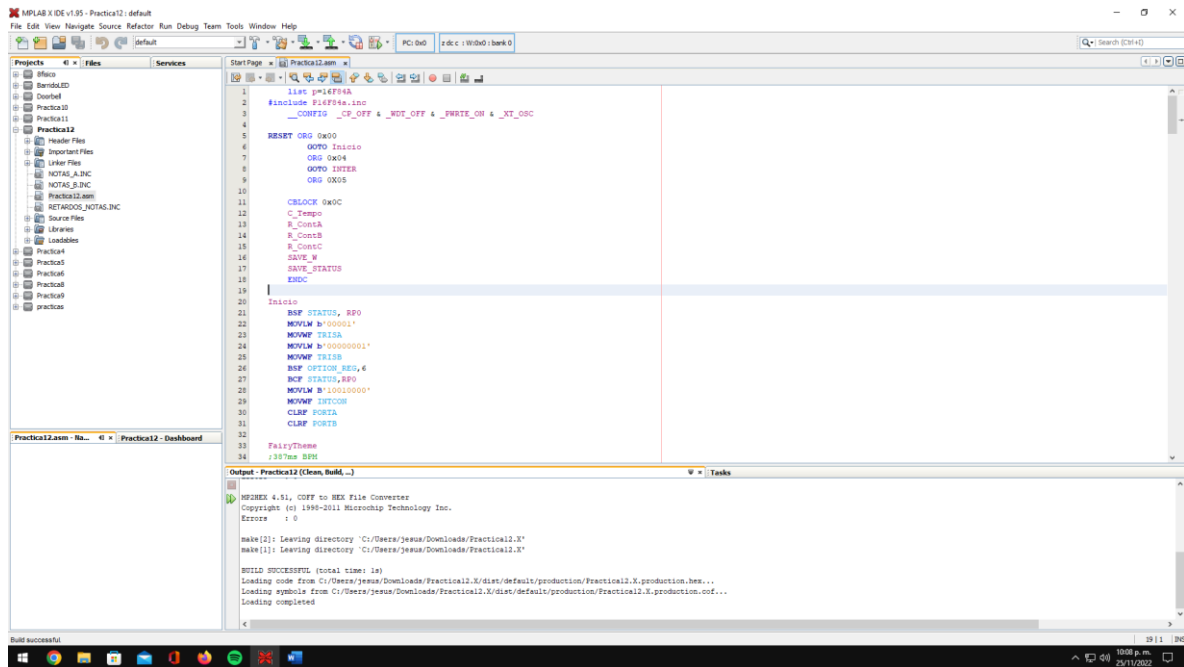
```
RETFIE
```

```
INCLUDE <RETARDOS_NOTAS.INC>
```

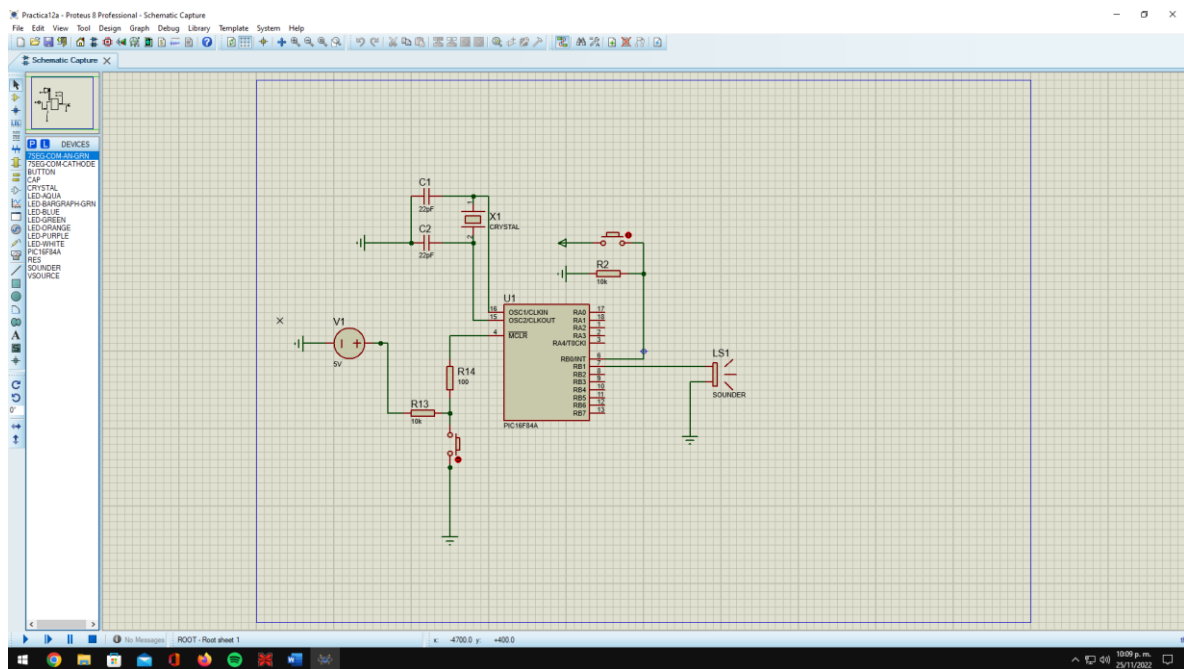
```
INCLUDE <NOTAS_A.INC>
```

```
INCLUDE <NOTAS_B.INC>
```

```
END
```



La carta .asm compilada y las librerías a la izquierda



Circuito sin simular

