

14_PROVA

;Tastiera Musicale

```
List      P=PIC16F887
Include   "p16F887.inc"
ERRORLEVEL -302
__config 0x2007, 0x20E4 ;0010 0000 1110 0100
__config 0x2008, 0x3EFF ;0011 1110 1111 1111
```

```
CONTATORE    EQU    0X20
SEMIPERODO    EQU    0X21
COUNT_L      EQU    0X22
COUNT_H      EQU    0X23
```

```
ORG    00
```

```
BSF        STATUS, RP0
MOVLW      0X61
MOVWF      OSCCON
MOVLW      B'11111110'
MOVWF      PORTC
BCF        STATUS, RP0
```

```
BEGIN      BTFSS   PORTC, 1
            CALL    DO_3
            BTFSS   PORTC, 2
            CALL    RE
            BTFSS   PORTC, 3
            CALL    MI
            BTFSS   PORTC, 4
            CALL    FA
            BTFSS   PORTC, 5
            CALL    SOL
            BTFSS   PORTC, 6
            CALL    LA
            BTFSS   PORTC, 7
            CALL    SI
            GOTO    BEGIN
```

```
DO_3        MOVLW   d'191'
            MOVWF   SEMIPERODO
            CALL    GENERATORE
            RETURN
```

```
RE          MOVLW   d'170'
            MOVWF   SEMIPERODO
            CALL    GENERATORE
            RETURN
```

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MI MOVLW d'152'
 MOVWF SEMIPERODO
 CALL GENERATORE
 RETURN

FA MOVLW d'143'
 MOVWF SEMIPERODO
 CALL GENERATORE
 RETURN

SOL MOVLW d'128'
 MOVWF SEMIPERODO
 CALL GENERATORE
 RETURN

LA MOVLW d'114'
 MOVWF SEMIPERODO
 CALL GENERATORE
 RETURN

SI MOVLW d'101'
 MOVWF SEMIPERODO
 CALL GENERATORE
 RETURN

GENERATORE NOP
 LOOP BSF PORTC, 0
 CALL DELAY
 BCF PORTC, 0
 CALL DELAY
 RETURN

DELAY MOVF SEMIPERODO, 0
 MOVWF COUNT_L
 LOOP1 MOVLW 2
 MOVWF COUNT_H
 LOOP2 DECFSZ COUNT_H, 1
 GOTO LOOP2
 DECFSZ COUNT_L, 1
 GOTO LOOP1
 RETURN

END