Rotina: teclado.c

Prof.: Alberto Willian Mascarenhas

```
#include <16F877A.h>
#device adc=8

#FUSES HS                       //High speed Osc (> 4mhz for PCM/PCH) (>10mhz for PCD)
#FUSES NOPUT                    //No Power Up Timer
#FUSES NOPROTECT                //Code not protected from reading
#FUSES NODEBUG                  //No Debug mode for ICD
#FUSES NOBROWNOUT               //No brownout reset
#FUSES NOLVP             //No low voltage prgming, B3(PIC16) or B5(PIC18) used for I/O
#FUSES NOCPD                    //No EE protection
#FUSES NOWRT                    //Program memory not write protected

#use delay(clock=20000000)

#ifndef lcd_enable
   #define lcd_enable     pin_E1      // pino enable do LCD
   #define lcd_rs         pin_E2      // pino rs do LCD
   //#define lcd_rw      pin_e2      // pino rw do LCD
   #define lcd_d4         pin_d4      // pino de dados d4 do LCD
   #define lcd_d5         pin_d5      // pino de dados d5 do LCD
   #define lcd_d6         pin_d6      // pino de dados d6 do LCD
   #define lcd_d7         pin_d7      // pino de dados d7 do LCD
#endif

#include "mod_lcd.c"

#include "kbd_ext_board2.c"

void main()
{
   unsigned char tmp;

   setup_adc_ports(NO_ANALOGS);
   setup_adc(ADC_OFF);
   setup_psp(PSP_DISABLED);
   setup_spi(SPI_SS_DISABLED);
   setup_timer_0(RTCC_INTERNAL|RTCC_DIV_1);
   setup_timer_1(T1_DISABLED);
   setup_timer_2(T2_DISABLED,0,1);
   setup_comparator(NC_NC_NC_NC);
   setup_vref(FALSE);

   lcd_ini(); // Inicializa LCD
   delay_ms(10);

   printf (lcd_escreve,"\fIFMT  ...  2022");
   delay_ms(1000);

   printf (lcd_escreve,"\f   TECLADO  ");
   delay_ms(2000);

   while (true)
   {

   //-----------------------------------------
       tmp = tc_tecla(1500); // ms
   //-----------------------------------------
```

```
      if(tmp!=255){
         printf (lcd_escreve,"\f Botton %c",tmp);
         }
      else{ printf (lcd_escreve,"\f   TECLADO  L");

      }


   } // laço infinito
}
```