# Rotina:memória_EEPROM_interna.c

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

#FUSES NOWDT                    //No Watch Dog Timer
#FUSES XT                       //Crystal osc <= 4mhz for PCM/PCH , 3mhz to 10 mhz for
PCD
#FUSES NOPUT                    //No Power Up Timer
#FUSES NOPROTECT                //Code not protected from reading
#FUSES NODEBUG                  //No Debug mode for ICD
#FUSES BROWNOUT                 //Reset when brownout detected
#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=4000000)
#use rs232(baud=9600,parity=N,xmit=PIN_C6,rcv=PIN_C7,bits=8)

#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 "C:\Alberto\IFMT 2023-II\Microcontroladores\Driver\mod_lcd.c"

void main()
{
   int8 result;

   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();
   delay_us(50);
   // TODO: USER CODE!!
   printf (lcd_escreve,"\f iniciando...");
   delay_ms(2000);

   write_eeprom(0,'A'); // 0x41

   result = read_eeprom(0);

   while(true){
     printf (lcd_escreve,"\f       IFMT      ");
     //printf("\n\rTemp = %d", value);
     printf (lcd_escreve,"\n\rValor: %X",result);

     delay_ms(2000);
   }
}
```