Σύντομα θα ακολουθήσουν οδηγίες και σχόλια!

Πολύ καλό Link : http://www.microchipc.com

```
/* This is a simple demo project written for use with
 * the HI-TECH Software PICC compiler. It may be compiled
 * and run on the Microchip PICDEM 2 PLUS DEMO BOARD.
 * Features demonstrated include driving the LCD display and
 * the A2D converter.

 Additional files required for this demo are included in the
 PICSAMPLES directories:
 DELAYdelay.c
 DELAYdelay.h
 lcd.c
 lcd.h
 */



#include <pic.h>
#include <stdio.h>
#include "lcd.h"



/* this is the maximum value of an A2D conversion. */
#define MAXVOLTAGE 5
#define SENSITIVITYMASK    0xFC    // Reduce precision of A2D result
```

```
void init(void){
   lcd_init(FOURBIT_MODE);
   ADON=1;    /* enable A2D converter */
   ADIE=0;    /* not interrupt driven */
   ADCON1=0x0E;
   ADCON0=1;
   TRISB=0x00;    // Set PORTB in output mode
   T1CON=0x31;    // turn on timer 1
   TMR1IE=1;    // timer 1 is interrupt enabled
   PEIE=1;       // enable peripheral interrupts
   GIE=1;       // turn on interrupts
}



void interrupt isr(void){
   if(TMR1IE && TMR1IF){
      PORTB++;
      TMR1IF=0;
   }
}



void main(void){
   unsigned char last_value;
   unsigned char volts;
   unsigned char decivolts;
   unsigned char outString[20];



   init();
   lcd_puts("Adust the");
   lcd_home2();    // select line 2
   lcd_puts("potentiometer");



   while(1){
      GODONE=1;
      while(GODONE)continue;
      ADIF=0;
      // Mask off the lower two bits as this level of precision
      // is wasted as we're only showing 0.1 volt increments.
      // This reduces unneccesary updates to the LCD.
```

```
        if((ADRESH&SENSITIVITYMASK)!=(last_value&SENSITIVITYMASK))
        {
            volts=0;
            for(decivolts=(ADRESH*10*MAXVOLTAGE/255);decivolts>=10;decivolts-=10)
                volts++;
            lcd_clear();
            sprintf(outString,"A2D = %d.%d volts",volts,decivolts);
            lcd_puts(outString);
        }
        last_value=ADRESH;
    }
}
```