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/* This program for a 16x2 LCD display is based on a HD44780 display
controller.
The Analog Voltage is displayed on line #1, and the Raw Input on line #2.
WA7RSO  08/22/2013
*/
#include <LiquidCrystal.h>  //  alert compiler to include the lcd library

int RS = 8;            // Read Strobe on pin #4 of the LCD
int RW = 9;            // Read/Write on pin #5 of the LCD
int E = 10;            // Enable on pin #6 of the LCD

//defines the pins used from the LCD to the Arduino (New Interface Board)
LiquidCrystal lcd(RS, E, 4, 5, 6, 7);

int rawNumber;

String InputVoltage;

void setup()                        //required function
{
  // initialize serial communication at 9600 bits per second:
//  Serial.begin(9600);      //see text
  pinMode(RW, OUTPUT);
  digitalWrite(RW, LOW);        // Allow "Writing" to the LCD

  lcd.begin(16,2);              //let the program know the size of the
display to be handled

}

void loop()                         //  Dummy Loop
{
// Read the analog input on pin #0
  int sensorValue = analogRead(A0);
  // Convert the analog reading (which goes from 0 - 1023) to a voltage
(0 - 5V):
  float voltage = sensorValue * (5.0 / 1023.0);
// print out the value you read:
//  Serial.println(voltage);
  lcd.setCursor(0,0);
//  InputVoltage = Stringvoltage;
  lcd.print("Voltage: ");
  lcd.print(voltage);
  lcd.print("V");
  Clear2ndLine();
    lcd.setCursor(0,3);
    rawNumber = sensorValue;
    lcd.print("Raw Value: ");
    lcd.print(String(sensorValue));
  delay(250);                        // Minimize some of the flutter

}
```

```
void Clear2ndLine()
{
    lcd.setCursor(0,1);
    lcd.print("                   ");
}
```