```
//---------Title-----------
/*
  File: lcd1.ino
  Started: 10/31/13
  Program Description: Displays "Hello World" on
  16x2 LCD display and the number of seconds
  since reset. Works with LCD displays that
  are compatible with the Hitachi HD44780 driver.
*/
//-----Connections-----
/*
 * LCD pin 1 to ground
 * LCD pin 2 to 5V
 * LCD VO pin 3 to wiper of 25 K potentiometer
 * LCD RS pin 4 to digital pin 12
 * LCD R/W pin 5 to ground
 * LCD Enable pin 6 to digital pin 11
 * LCD D4 pin 11 to digital pin 5
 * LCD D5 pin 12 to digital pin 4
 * LCD D6 pin 13 to digital pin 3
 * LCD D7 pin 14 to digital pin 2
 */
//-----Initializations-----

// Include the library code:
#include <LiquidCrystal.h>

// Initialize the library with the numbers of the
// UNO interface pins.
// Syntax: LiquidCrystal(rs, enable, d4, d5, d6, d7)
LiquidCrystal lcd(12, 11, 5, 4, 3, 2);

void setup() {
  // Set up the LCD's number of columns and rows:
  // Syntax: lcd.begin(cols, rows)
  lcd.begin(16, 2);
  // Print "Hello World" to the LCD.
  // Syntax: lcd.print(char, byte, int, long, or string)
```

```
  lcd.print("Hello World");
}

// --------Main Code--------

void loop() {
  // Set the cursor for timer to column 0, line 1
  // Syntax: lcd.setCursor(col, row)
  // col: the column at which to position the cursor (with 0
  // being the first column)
  // row: the row at which to position the cursor (with 0
  //  being the first row)
  lcd.setCursor(0, 1);
  // Print the number of seconds since reset:
  lcd.print(millis()/1000);
}
```