

LCD connections for MSOE Support Library – Parallel Connection:

LCD Pin	ATmega328p (Arduino UNO)
RS	PB5 (Digital 13)
R/W	connect to GND
E	PB4 (Digital 12)
DB 0:3	no connection
DB 4:7	PD4:7 (Digital 4:7)

Sample Program:

```
/*
 * testLCD.c
 * Verifies operation of the LCD panel on the Arduino UNO board.
 *
 * Created on: Sep 12, 2011
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 *
 * LCD Connections:
 * E - PB4 (Digital 12)
 * RS - PB5 (Digital 13)
 * R/W - GND
 * Data 4,5,6,7 - PD4,5,6,7 (Digital 4,5,6,7)
 */

#include <avr/io.h>
#include <inttypes.h>
#include <MSOE/delay.c>
#include <MSOE/bit.c>
#include <MSOE/lcd.c>

int main(void)
{
    int count;

    lcd_init();
    lcd_clear();
    lcd_home();
    lcd_printf("Hello World");

    count = 0;
    while(1)
    {
        lcd_goto_xy(0,1);
        lcd_printf("%d", count);
        delay_ms(1000);
        count++;
    }
}
```