

**LCD connections for MSOE\_I2C Support Library – Serial Connection using I2C Backpack:**

I2C Backpack Pin	ATmega328p (Arduino UNO)
CLK	PC5 (Analog 5)
DAT	PC4 (Analog 4)

**Sample Program:**

```
/*
 * testLCDI2C.c
 * Verifies operation of the LCD panel and I2C backpack on the Arduino UNO board.
 *
 * Created on: Oct 17, 2012
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 *
 * I2C Backpack Connections:
 * CLK - PC5 (Analog 5)
 * DAT - PC4 (Analog 4)
 */

#include <avr/io.h>
#include <inttypes.h>
#include "MSOE_I2C/delay.h"
#include "MSOE_I2C/lcd.h"

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++;
    }
}
```