

Lab 07: LCD Interfacing

Objective:

1. To interface the LCD with 8051 in 8 bit mode
2. Code 8051 for display of alphabets on LCD

Introduction:

The LCD available on the 8051 development board is 2x16 LCD which means that this LCD can display 16 characters in a line and there are 2 lines. So maximum 32 characters can be displayed on the 16x2 LCD at a time.

Each character is displayed in a 5x7 pixel matrix. There are two registers in an LCD:

1) Data Register:

Data register contains the character to be displayed on the LCD. Data is the ASCII value of the character to be displayed

2) Command / Instruction Register:

Stores the command / instructions given to the LCD. A command or instruction performs the predefined task for the LCD. Some of the predefined tasks are clearing the screen, Moving / setting cursor, scrolling the display etc. Some of the commands / instructions are given in the Table 2.

Table 2: Pin Description of 16x2 LCD

PIN	SYMBOL	I/O	DESCRIPTION
1	V _{ss}	-	Power supply (GND)
2	V _{cc}	-	Power supply (+5V)
3	V _{ee}	-	Contrast Adjustment
4	RS	I	0 = Select command register 1 = Select data register
5	R/W	I	0 = Write to LCD 1 = Read from LCD
6	E	I	A high to low pulse (minimum 450ns wide) is given when data is sent to data pins
7	DB0	I/O	Data bit line 0 (LSB)
8	DB1	I/O	Data bit line 1
9	DB2	I/O	Data bit line 2
10	DB3	I/O	Data bit line 3
11	DB4	I/O	Data bit line 4
12	DB5	I/O	Data bit line 5
13	DB6	I/O	Data bit line 6
14	DB7	I/O	Data bit line 7 (MSB)
15	LED+	-	Backlight V _{cc} +5V
16	LED-	-	Backlight GND 0V

Lab Manual For 8051 Microcontroller

WJ Hussar



Lab Manual For 8051 Microcontroller:

Lab Manual For 8051 Microcontroller Book Review: Unveiling the Power of Words

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Table of Contents Lab Manual For 8051 Microcontroller

1. Understanding the eBook Lab Manual For 8051 Microcontroller
 - The Rise of Digital Reading Lab Manual For 8051 Microcontroller
 - Advantages of eBooks Over Traditional Books
2. Identifying Lab Manual For 8051 Microcontroller
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lab Manual For 8051 Microcontroller
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lab Manual For 8051 Microcontroller
 - Personalized Recommendations
 - Lab Manual For 8051 Microcontroller User Reviews and Ratings
 - Lab Manual For 8051 Microcontroller and Bestseller Lists

5. Accessing Lab Manual For 8051 Microcontroller Free and Paid eBooks
 - Lab Manual For 8051 Microcontroller Public Domain eBooks
 - Lab Manual For 8051 Microcontroller eBook Subscription Services
 - Lab Manual For 8051 Microcontroller Budget-Friendly Options
6. Navigating Lab Manual For 8051 Microcontroller eBook Formats
 - ePub, PDF, MOBI, and More
 - Lab Manual For 8051 Microcontroller Compatibility with Devices
 - Lab Manual For 8051 Microcontroller Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lab Manual For 8051 Microcontroller
 - Highlighting and Note-Taking Lab Manual For 8051 Microcontroller
 - Interactive Elements Lab Manual For 8051 Microcontroller
8. Staying Engaged with Lab Manual For 8051 Microcontroller
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lab Manual For 8051 Microcontroller
9. Balancing eBooks and Physical Books Lab Manual For 8051 Microcontroller
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lab Manual For 8051 Microcontroller
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Lab Manual For 8051 Microcontroller
 - Setting Reading Goals Lab Manual For 8051 Microcontroller
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Lab Manual For 8051 Microcontroller
 - Fact-Checking eBook Content of Lab Manual For 8051 Microcontroller
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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