

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

Mike Jess



Lab Manual For 8051 Microcontroller:

Practical Electronics (Volume I) Balamurugan A,Veeramanikandasamy T,2019-12-28 Laboratory experiences are the part of science and technology curricula of higher education This laboratory manual intended to support the undergraduate and postgraduate students in the related fields of Electronics for practicing embedded system experiments The chapters begin with an introduction and it covers the experiments for the 8085 Microprocessor 8051 Microcontroller laboratory Each experiment consists of aim hardware software requirements algorithm program experimental results and conclusion For the most part the lab manual includes the standard laboratory experiments that have been used by many academicians related to electronics departments for years Over sixty three practical experiments described here to explore the practical knowledge of students on embedded systems This book comprises two chapters that are focused on the lab experiments of the 8085 Microprocessor 8051 Microcontroller laboratory This book helps to Promote experiential learning among the students Give practical or informal knowledge to understand how things work Know the interaction between software and hardware

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Applied Electronic Instrumentation and Measurement David Buchla, Wayne McLachlan, 1992 This book covers principles of measurement instruments and instrumentation a systems viewpoint and covers the analysis of measurement problems associated with systems

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The 8051 Microcontroller I. Scott MacKenzie, 1995 Well known in this discipline to be the most concise yet adequate treatment of the subject matter it provides just enough detail in a direct exposition of the 8051 microcontroller s internal hardware components This book provides an introduction to microcontrollers a hardware summary and an instruction set summary It covers timer operation serial port operation interrupt operation assembly language programming 8051 C programming program structure and design and tools and techniques for program development For microprocessor programmers electronic engineering specialist computer scientists or electrical engineers

Digital Electronics Laboratory Experiments James W. Stewart, Chao-Ying Wang, 2001 For Freshman Sophomore level courses in Digital Circuit Design Digital System Design and Computer Engineering Technology This book offers an easy to read easy to follow approach to digital fundamentals through the use of Complex Programmable Logic Devices CPLDs The use of advanced logic device technology in an introductory digital course prepares students both for lab work in advanced courses as well as for using an industry standard design environment

Embedded Controller Forth For The 8051 Family William H. Payne, 2012-12-02 The purpose of this book is to present the technology required to develop hardware and software for embedded controller systems at a fraction of the cost of traditional methods Included in the book are hardware schematics of 8051 family development systems single board and bussed 8051 microcontroller Source code for both the 8086 and 805 family FORTH operating systems is published in the book Binary images of the operating systems can be generated from the source code using the metacompiler also contained in the book The book can be seen as a

toolbox including all the necessary hardware and software information to be used in constructing 8051 based controller systems Experiments in Electronic Devices Berlin, Howard M. Berlin, 1991-09 **Program Interfacing 8086 8088** Goody, 1992 The AutoCAD Book James M. Kirkpatrick, 1992 IoT Technician - Smart Agriculture (Practical) Mr. Rohit Manglik, 2024-05-18 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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