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

Victor M. Corman

Lab Manual For 8051 Microcontroller:

Unveiling the Energy of Verbal Beauty: An Mental Sojourn through **Lab Manual For 8051 Microcontroller**

In a global inundated with screens and the cacophony of instant conversation, the profound energy and mental resonance of verbal artistry often disappear in to obscurity, eclipsed by the regular onslaught of sound and distractions. However, located within the lyrical pages of **Lab Manual For 8051 Microcontroller**, a interesting function of fictional beauty that pulses with organic thoughts, lies an memorable journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, this exciting opus manuals viewers on a mental odyssey, delicately revealing the latent possible and profound impact stuck within the delicate web of language. Within the heart-wrenching expanse of the evocative examination, we shall embark upon an introspective exploration of the book is key themes, dissect its interesting publishing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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