

## EXPERIMENT-1

- **AIM:** Familiarization of different keys of 8085 microprocessor kit and its memory map.
- **APPARATUS:** 8085 kit.
- **DIAGRAM:**

Reset	VCT INT	Shift	C	D	E	F
RTG SI	INCD	DELD	8	9	A	B
DEL GO	INS BM	REL EXEM	4	5	6	7
STRG PRG	MEMO MEME	FILL	0	1	2	3

Keyboard of 8085 kit

- **THRORY:-**

### KEYBOARD DESCRIPTION:

Vinytics 8085 kit has 28 keys and six-seven segment display to communicate with the outside world. As kit is switches ON, a message –'UP 85' is displayed on the display and all keys are in command mode.

The keyboard is as shown below:

- **RESET:-** Reset the system.
- **VCT INT:-** Hardware interrupt via keyboard, RST 7.5.
- **SHIFT:-** Provides a second level command to all keys.
- **GO:-** To execute a program.
- **SI:-** To execute the program on single step mode.
- **EXREG:-** EXAMINE REGISTER; allows user to examine and modify the contents of different register.
- **PRE:-** Previous is used as an intermediate terminator in case of examine memory.
- **DEL:-** DELETE the part of the program or data with relocation, by one or more bytes.
- **INS:-** Inserts the part of the program or data with relocation, by one or more bytes.
- **B.M:-** BLOCK MOVE allows user to move a block of memory to any RAM area.
- **FILL:-** Allows user to fill RAM area with a constant.
- **REL:-** RELOCATES a program written for some memory area and to be transferred to other memory area.

# Microprocessor Lab Manual Explanation

**Lisa A. Seidman, Cynthia J.  
Moore, Jeanette Mowery**



## **Microprocessor Lab Manual Explanation:**

*Microprocessor (8085) Lab Manual* G.T. Swamy, 2006      *Navigating Information Challenges* Eli B. Cohen, 2011

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*Digital and Microprocessor Technology* Patrick Joseph O'Connor, 1989      Basic Laboratory Methods for Biotechnology Lisa A. Seidman, Cynthia J. Moore, Jeanette Mowery, 2021-12-28 Basic Laboratory Methods for Biotechnology Third Edition is a versatile textbook that provides students with a solid foundation to pursue employment in the biotech industry and can later serve as a practical reference to ensure success at each stage in their career The authors focus on basic principles and methods while skillfully including recent innovations and industry trends throughout Fundamental laboratory skills are emphasized and boxed content provides step by step laboratory method instructions for ease of reference at any point in the students progress Worked through examples and practice problems and solutions assist student comprehension Coverage includes safety practices and instructions on using common laboratory instruments Key Features Provides a valuable reference for laboratory professionals at all stages of their careers Focuses on basic principles and methods to provide students with the knowledge needed to begin a career in the Biotechnology industry Describes fundamental laboratory skills Includes laboratory scenario based questions that require students to write or discuss their answers to ensure they have mastered the chapter content Updates reflect recent innovations and regulatory requirements to ensure students stay up to date Tables a detailed glossary practice problems and solutions case studies and anecdotes provide students with the tools needed to master the content      ECEL 2022 21st European Conference on e-Learning Panagiotis Fotaris, Andrew Blake, 2022-10-27      *InfoWorld*, 1979-06-11 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects      **68000 Assembly Language Programming and Interfacing** Ambrose Barry, 1992 Using an integrated applications format this book provides novice computer users a solid and complete foundation in both language programming and interfacing techniques KEY TOPICS The book explains each new idea and concept with a set of step by step instructions for its application in real life situations Coverage is aimed at readers with no previous computer or digital experience      *Essential Readings in Light Metals, Volume 1, Alumina and Bauxite* Don Donaldson, Benny Raahauge, 2017-01-04 ONE OF A FOUR BOOK COLLECTION SPOTLIGHTING CLASSIC ARTICLES Five decades of landmark original research findings and reviews Highlighting some of the most important findings reported over the past five decades this volume features some of the best technical papers published on alumina and bauxite from 1963 to 2011 Papers have been divided into thirteen subject sections for ease of access Each section has a brief introduction and a list of recommended articles for researchers interested in exploring each subject in greater depth Only about fifteen percent of the alumina and bauxite papers ever published in Light Metals were

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*Research Awards Index* ,1987

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