

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	MEMC MEMD	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 With Theory

Ying Liu



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The 68000 Microprocessor James L. Antonakos,1990 The Intel Microprocessors Barry B. Brey,1991 16/32 Bit Microprocessors Wunnavu V. Subbarao,1991 An integrated practical introduction to 16 bit and 32 bit microprocessors using the Motorola 68000 family as examples for electronics engineering computer science and technology students *Essential Mathematics for Electronics Technicians* Fred Monaco,1991 Core text for the introductory mathematics course for beginning electronics technology students **Introductory Circuit Analysis** Robert L. Boylestad,1990-02 **Digital Experiments** David Buchla,1990 **Principles of Biomedical Instrumentation and Measurement** Richard Aston,1990 A contemporary new text for preparing students to work with the complex patient care equipment found in today's modern hospitals and clinics It begins by presenting fundamental prerequisite concepts of electronic circuit theory medical equipment history and physiological transducers as well as a systematic approach to troubleshooting The text then goes on to offer individual chapters on common and speciality medical equipment both diagnostic and therapeutic Self contained these chapters can be used in any order to fit the instructor's class goals and syllabus **Program Interfacing 8086 8088** Goody,1992 Digital Electronics Through Project Analysis Ronald A. Reis,1991 An introductory text to digital circuits for beginning electronics students which provides coverage of basic digital concepts and includes 46 actual digital projects that illustrate concrete applications Coverage encompasses digital combinational and sequential logic circuits **PSpice and Circuit Analysis** John L. Keown,1991 **Basic Technical Drawing** Phillip Sell,1991 Digital Fundamentals Thomas L. Floyd,1990 *Electronic Devices and Circuits* Theodore F. Bogart,1990 Very Good No Highlights or Markup all pages are intact **The 68000 Microprocessor Family** Michael A. Miller,1992 *Microcomputer Systems Theory and Service* Charles J. Brooks,1996-09 **Computer Books and Serials in Print** ,1985 **CoED.** ,1988 **Statistical Process Control and Quality Improvement** Gerald Smith,1991 **Digital Experiments Emphasizing Troubleshooting** Jerry V. Cox,1990 **A Handbook of English for Technical Students** Anne A. Panares,1992

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Table of Contents Microprocessor Lab Manual With Theory

1. Understanding the eBook Microprocessor Lab Manual With Theory
 - The Rise of Digital Reading Microprocessor Lab Manual With Theory
 - Advantages of eBooks Over Traditional Books
2. Identifying Microprocessor Lab Manual With Theory
 - 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 Microprocessor Lab Manual With Theory
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microprocessor Lab Manual With Theory
 - Personalized Recommendations
 - Microprocessor Lab Manual With Theory User Reviews and Ratings
 - Microprocessor Lab Manual With Theory and Bestseller Lists
5. Accessing Microprocessor Lab Manual With Theory Free and Paid eBooks

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