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Laboratory Experiments:

S.No	Name of the Experiment
I. Assembly Language Programming	
Data Transfer Programs:	
1	Write an ALP to move a block of n bytes of data from source (20h) to destination (40h) using Internal-RAM.
2	Write an ALP to move a block of n bytes of data from source (2000h) to destination (2050h) using External RAM.
3	Write an ALP To exchange the source block starting with address 20h, (Internal RAM) containing N (05) bytes of data with destination block starting with address 40h (Internal RAM).
4	Write an ALP to exchange the source block starting with address 10h (Internal memory), containing n (06) bytes of data with destination block starting at location 00h (External memory).
Arithmetic & Logical Operation Programs:	
5	Write an ALP to add the byte in the RAM at 34h and 35h, store the result in the register R5 (LSB) and R6 (MSB), using Indirect Addressing Mode.
6	Write an ALP to subtract the bytes in Internal RAM 34h & 35h store the result in register R5 (LSB) & R6 (MSB).
7	Write an ALP to multiply two 8-bit numbers stored at 30h and 31h and store 16- bit result in 32h and 33h of Internal RAM.
8	Write an ALP to perform division operation on 8-bit number by 8-bit number.
9	Write an ALP to separate positive and negative in a given array.
10	Write an ALP to separate even or odd elements in a given array.
11	Write an ALP to arrange the numbers in Ascending & Descending order.
12	Write an ALP to find Largest & Smallest number from a given array starting from 20h & store it in Internal Memory location 40h.
Counter Operation Programs:	
13	Write an ALP for Decimal UP-Counter.
14	Write an ALP for Decimal DOWN-Counter.
15	Write an ALP for Hexadecimal UP-Counter.
16	Write an ALP for Hexadecimal DOWN-Counter.
II. C Programming	

Vtu Microcontroller Lab Manual Explains

VM Jensen



Vtu Microcontroller Lab Manual Explains:

The book delves into Vtu Microcontroller Lab Manual Explains. Vtu Microcontroller Lab Manual Explains is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Vtu Microcontroller Lab Manual Explains, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Vtu Microcontroller Lab Manual Explains
 - Chapter 2: Essential Elements of Vtu Microcontroller Lab Manual Explains
 - Chapter 3: Vtu Microcontroller Lab Manual Explains in Everyday Life
 - Chapter 4: Vtu Microcontroller Lab Manual Explains in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, the author will delve into the foundational concepts of Vtu Microcontroller Lab Manual Explains. The second chapter will elucidate the essential principles that need to be understood to grasp Vtu Microcontroller Lab Manual Explains in its entirety.
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 6. In chapter 5, this book will draw a conclusion about Vtu Microcontroller Lab Manual Explains. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Vtu Microcontroller Lab Manual Explains.

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