

Assignment Number -04 (B)

TEE-404 Microprocessor and Its Application/TCS-405 Microprocessors

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Objective: To introduce the concepts of Assembly programming for the Intel-8085 Microprocessor.

Unit: II

1. Two 8-bit numbers are stored in memory. Write an 8085 assembly program to perform the addition and subtraction of these two numbers and store the 16-bit and 8-bit result respectively back into memory. Numbers are represented in decimal system.
2. Write a program for the following cases:
 - i. Find 1's complement of a 8-bit number
 - ii. Find 1's complement of a 16-bit number
 - iii. Find 2's complement of a 8-bit number
 - iv. Find 2's complement of a 16-bit number
 - v. To find larger of two numbers
 - vi. To find the largest number in a data array
 - vii. Multiplication of two 8-bit numbers and product is 16-bit
 - viii. 8-bit decimal subtraction to consider positive as well as negative result