

Assignment

- (1) Store the data byte 32H into memory location 4000H
- (2) Exchange the contents of memory locations 2000H and 4000H
- (3) Add two 8-bit numbers: Add the contents of memory locations 4000H and 4001H and place the result in memory location 4002H.
- (4) Subtract two 8-bit numbers: Subtract the contents of memory location 4001H from the memory location 2000H and place the result in memory location 4002H.
- (5) Add the 16-bit number in memory locations 4000H and 4001H to the 16-bit number in memory locations 4002H and 4003H. The most significant eight bits of the two numbers to be added are in memory locations 4001H and 4003H. Store the result in memory locations 4004H and 4005H with the most significant byte in memory location 4005H.
- (6) Add contents of two memory locations: Add the contents of memory locations 4000H and 4001H and place the result in the memory locations 4002H and 4003H.
- (7) Write a program for one's complement of 8 bit number.
- (8) Write a program for two's complement of 8 bit number.
- (9) Subtract the 16-bit number in memory locations 4002H and 4003H from the 16-bit number in memory locations 4000H and 4001H. The most significant eight bits of the two numbers are in memory locations 4001H and 4003H. Store the result in memory locations 4004H and 4005H with the most significant byte in memory location 4005H.
- (10) Write a program using the ADI instruction to add the two hexadecimal numbers 3AH and 48H and store the result in memory location 2100H.
- (11) Write an assembly language program that AND, OR and XOR together the contents of register B, C and E and place the result into memory location 3000H, 3001H and 3002H.
- (12) Program to Find 1's Complement of 16-bit Number
- (13) Program to Find 2's Complement of 16-bit Number