

**EEE/ECE/INSTR F241**

**Lab 1**

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- 1.** Write an ALP to find the largest number in an array of ten 8-bit numbers stored in memory starting from address 2000H
  - 2.** Write an ALP to store 2 eight-bit numbers at location 0x1000 and 0x1001. Find their product and store the result from location 0x2000
  - 3.** Write an ALP to add the numbers 0x1BC and 0x221 and store the result in memory from address 0x2000
  - 4.** Write an ALP to sort an array of ten 8-bit numbers in ascending order which are stored in memory starting from address 2000H
  - 5.** Write an ALP to check whether a given number is present in an array. The number to be checked is stored in memory address 1000H and the array is stored starting from address 2000H. The size of the array is stored in address 1001H. If the element is present, store 1H in address 1002H else store 0.
  - 6.** Write an ALP to implement the modulus operation. The dividend and divisor are 8-bit numbers. Dividend is stored at address 1000H and divisor at 1001H. Store the result of modulus at address 2000H
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