Assignment 3- Array and String

1. Write a C program to read n integer numbers into an array and find the average of largest two of the given numbers without sorting the array.

2. Write a C program to reverse elements of an array. (For e.g., If input array is : 2 4 5 1 7 8 Reversed array should be : 8 7 1 5 4 2)

3. Write a C program to insert an element at (beginning/last/at any position) in an array. Hint: shifting of array elements will be required.

4. Write a C program to delete an element from (beginning/last/at any position) in an array. Hint: shift array elements and modify size variable.

5. Write a menu driven C program to perform addition, subtraction and multiplication operation on two matrices. (Take two matrices as input from user)

6. Write a C program to print and find sum of diagonal elements of a matrix.

7. Write a C program to calculate the sum of elements of each row and column of matrix.

8. Write a C program to print upper and lower triangular matrix of a square matrix. (Take a square matrix as input from user)

9. Write a menu driven C program to perform operations such as (length, copy, compare, concat, reverse, substring) on string using/ without using standard library function.

10. Write a C program to count the number of vowels, consonants, digits and blank-spaces in a string entered by the user.

11. Write a C program to count the frequency of characters in a string. (For example, Input String is: College

    Frequency of c = 1

    Frequency of l = 2

    Frequency of e = 2 etc.)

12. Write a C program to convert the string from upper case to lower case and vice-versa with and without using the string library function.