

## **Assignment 7**

**[18.01.2021 – Monday – Lab 7]**

### **Common to All Students:**

*Write a C Program for the following problem statements*

1. read n number of values in an array and display it in reverse order.
2. find the sum of all elements of the array.
3. copy the elements of one array into another array.
4. count a total number of duplicate elements in an array.
5. find the maximum and minimum element in an array.
6. separate odd and even integers in separate arrays.
7. insert New value in the array.
8. delete an element at desired position from an array.
9. find the second largest element in an array.
10. find the median of two sorted arrays of same size.
11. multiplication of two square Matrices
12. find transpose of a given matrix.
13. find the sum of left diagonals of a matrix.
14. check whether a given matrix is an identity matrix.
15. search an element in a row wise and column wise sorted matrix.

### **Practice Questions [Optional]:**

*Write a C Program for the following problem statements*

1. print all unique elements in an array.
2. count the frequency of each element of an array.
3. sort elements of the array in descending order
4. find the second smallest element in an array.
5. find the row with maximum number of 1s.
6. find numbers that occur odd number of times in an array.
7. rearrange positive and negative numbers alternatively in a given array.
8. subtraction of two Matrices
9. find sum of right diagonals of a matrix.
10. display the lower triangular of a given matrix.
11. calculate determinant of a 3 x 3 matrix.
12. return only the unique rows from a given binary matrix.

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