**LIST OF ARRAY AND MATRIX PROGRAMMING EXERCISES**

1. Write a C program to read and print elements of array. - using recursion.

2. Write a C program to print all negative elements in an array.

3. Write a C program to find sum of all array elements. - using recursion.

4. Write a C program to find maximum and minimum element in an array. - using recursion.

5. Write a C program to find second largest element in an array.

6. Write a C program to count total number of even and odd elements in an array.

7. Write a C program to count total number of negative elements in an array.

8. Write a C program to copy all elements from an array to another array.

9. Write a C program to insert an element in an array.

10. Write a C program to delete an element from an array at specified position.

11. Write a C program to count frequency of each element in an array.

12. Write a C program to print all unique elements in the array.

13. Write a C program to count total number of duplicate elements in an array.

14. Write a C program to delete all duplicate elements from an array.

15. Write a C program to merge two array to third array.

16. Write a C program to find reverse of an array.

17. Write a C program to put even and odd elements of array in two separate array.

18. Write a C program to search an element in an array.

19. Write a C program to sort array elements in ascending or descending order.

20. Write a C program to sort even and odd elements of array separately.

21. Write a C program to left rotate an array.

22. Write a C program to right rotate an array.

**LIST OF MATRIX PROGRAMMING EXERCISES**

23. Write a C program to add two matrices.

24. Write a C program to subtract two matrices.

25. Write a C program to perform Scalar matrix multiplication.

26. Write a C program to multiply two matrices.

27. Write a C program to check whether two matrices are equal or not.

28. Write a C program to find sum of main diagonal elements of a matrix.

29. Write a C program to find sum of minor diagonal elements of a matrix.

30. Write a C program to find sum of each row and column of a matrix.