**ARRAY HOMEWORKS**

1. Write a program in C to read n number of values in an array and display it in reverse order.
2. Write a program in C to copy the elements of one array into another array.
3. Write a program in C to count a total number of duplicate elements in an array. You must apply a suitable function in your code.
4. Write a program in C to print all unique elements in an array.
5. Write a program in C to merge two arrays of same size sorted in decending order.
6. Write a program in C to count the frequency of each element of an array.
7. Write a program in C to find the maximum and minimum element in an array. You must apply a suitable function in your code.
8. Write a program in C to separate odd and even integers in separate arrays.
9. Write a program in C to delete an element at desired position from an array.
10. Write a program in C to find the second smallest element in an array. You must apply a suitable function in your code.
11. Write a program in C for addition of two Matrices of same size.
12. Write a program in C to find transpose of a given matrix.
13. Write a program in C to find sum of right diagonals of a matrix. You must apply a suitable function in your code.
14. Write a program in C to find sum of rows an columns of a Matrix. You must apply a suitable function in your code.
15. Write a program in C to calculate determinant of a 3 x 3 matrix. You must apply a suitable function in your code.
16. Write a program in C to accept two matrices and check whether they are equal. You must apply a suitable function in your code.
17. Write a program in C to check whether a given matrix is an identity matrix. You must apply a suitable function in your code.
18. Write a program in C to find majority element of an array.
19. Write a program in C to check whether an array is subset of another array. You must apply a suitable function in your code.
20. Write a program in C to print all possible combinations of r elements in a given array.