

# Assignment No. –

## Using Single Dimensional Array

Write a program in 'C' to perform the following tasks:

1. Read and print one dimensional array of ten integer elements.
2. Copy all elements of an array into another array.
3. Find the minimum, maximum and average of five elements present in an array.
4. Replace all even elements by 0 and odd by 1 in an array.
5. Count the odd, even, positive, and negative numbers present in an array.
6. Check and display all prime numbers in an array.
7. Add and subtract two 1 D array elements.
8. Update a particular location of an array with a given value.
9. Count the number of occurrences of an element in a single dimensional array.
10. Reverse the elements of an array.
11. Arrange all the elements of an array in descending order.
12. Search an element from an array using linear search technique.
13. Search an element from an array using binary search method.
14. Sort a given array using bubble sort approach.
15. Find the second largest element present in an array.
16. Merge two sorted array by storing it in another array in sorted order.
17. Shuffle an array of elements by interchanging the even and odd positions.
18. Delete an element from an array present at a specific position.
19. Delete any element from an array chosen by the user.
20. Insert an element in an array at a given index.
21. Delete the duplicate elements from an array.

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**Signature of the Teacher**