LAB ASSIGNMENT 1

1. Write a program to delete an element from a specific position in the given array.
2. Write a program to insert an element from a specific position in the given array.
3. Write a program to insert, delete from sorted one dimensional array
4. Write a program to merge two sorted arrays.
5. Write a program to implement linear search, binary search.
6. Write a program to implement bubble sort
7. Write a program to find an occurrence of an element in a one dimensional array.
8. Write a program to find all occurrences of an element in a one dimensional array.
9. Write a program to find all occurrences of all unique elements in a one dimensional array.
10. Write a program to remove the first occurrence of an element in a one dimensional array.
11. Write a program to remove all occurrences of an element in a one dimensional array.
12. Write a program that removes all duplicate elements from a one dimensional array.

Practice Programs in Arrays

13. Write a program to find the sum of all elements of the array.
14. Write a program to count a total number of duplicate elements in an array.
15. Write a program to print all unique elements in an array.
16. Write a program to merge two arrays of same size sorted in descending order
17. Write a program to count the frequency of each element of an array.
18. Write a program to find intersection of two linear arrays and store the result in third array
19. Write a program to find union of two linear arrays and store the result in third array
20. Write a program to find the maximum and minimum element in an array.
21. Write a program to separate odd and even integers in separate arrays
22. Write a program to find the second largest element in an array
23. Write a program to read n number of values in an array and
    display it in reverse order
    reverse the array.
24. Write a program to update every array element with multiplication of previous and next numbers in array.
    Expected Output:
    The given array is:
    1 2 3 4 5 6
    The new array is:
    2 3 8 15 24 30

25. Write a program to rearrange an array such that even index elements are smaller and odd index elements are greater than their next.
    Expected Output:
    The array given is:
    6 4 2 1 8 3
    The new array after rearranging:
    4 6 1 8 2 3