Day 11

Lab Assignments

1. WAP to create an array that can store n integers and display the contents of the array.
   Input: Enter the array size: 5
   Enter 5 elements: 3 6 1 8 5
   Output: Elements of the array are: 3 6 1 8 5
2. WAP to find out the sum of n numbers stored in an array of integers.
   Input: Enter the array size: 5
   Enter 5 elements: 3 6 1 8 5
   Output: Sum of the elements of the array: 23
3. WAP to find largest element stored in an array.
   Input: Enter the array size: 5
   Enter 5 elements: 3 16 11 8 15
   Output: Largest element of the array: 16
4. WAP to search an element in a 1-d array.
   Input 1: Enter the array size: 5
   Enter 5 elements: 3 16 11 8 15
   Enter the element to search: 8
   Output 1: Element 8 found at position 4
   Input 2: Enter the array size: 5
   Enter 5 elements: 3 16 11 8 15
   Enter the element to search: 13
   Output 2: Element 13 not found in the array.
5. WAP to insert an element in a 1-d array.
   Input: Enter the array size: 5
   Enter 5 elements: 3 16 11 8 15
   Enter the element to be inserted: 13
   Enter the position of insertion: 3
   Output: Array elements before insertion: 3 16 11 8 15
   Array elements after insertion: 3 16 13 11 8 15
6. WAP to reverse the array elements by swapping first element with last, second element with second last and so on.
   Input: Enter the array size: 5
   Enter 5 elements: 3 16 11 8 15
   Output: Array elements: 3 16 11 8 15
   Reverse of the array: 15 8 11 16 3

Home Assignments

1. WAP to find the average of n numbers using arrays.
   Input: Enter the array size: 5
   Enter 5 elements: 3 16 11 8 15
   Output: Average of the array: 10.6
2. WAP to delete an element from a desired position from an array.
   Input: Enter the array size: 5
   Enter 5 elements: 3 16 11 8 15
   Enter the position of the element to be deleted: 4
   Output: Array elements before deletion: 3 16 11 8 15
   Array elements after deletion: 3 16 11 15
3. WAP to print all the even and odd numbers of an 1-d array separately.

Input: Enter the array size: 10
Enter 10 elements: 3 16 11 8 15 4 12 34 51 76
Output: Even Numbers: 16 8 4 12 34 76
Odd Numbers: 3 11 15 51

4. WAP to multiply the content of two arrays and store the result in a third array. Display the elements of the resultant array.
   Input: Enter the array size: 5
   Enter 5 elements of the first array: 3 6 1 8 5
   Enter 5 elements of the second array: 2 3 1 4 5
   Output: Elements of the resultant array after multiplication: 6 18 1 32 25
5. WAP to find out the largest even integer stored in an array of n integers where n is inputted from the user.
   Input: Enter the array size: 10
   Enter 10 elements: 3 16 11 8 15 4 12 34 51 7
   Output: Largest even number of the array: 34
6. WAP to swap the pair of elements starting from the beginning.
   Input 1: Enter the array size: 10
   Enter 10 elements: 3 16 11 8 15 4 12 34 51 7
   Output 1: Before swapping elements are: 3 16 11 8 15 4 12 34 51 7
   After swapping elements are: 16 3 8 11 4 15 34 12 7 51
   Input 2: Enter the array size: 5
   Enter 5 elements: 3 6 1 8 5
   Output 2: Before swapping elements are: 3 6 1 8 5
   After swapping elements are: 6 3 8 1 5