Arrays in JAVA SSUET/QR/114

**LAB # 04**

**ARRAYS IN JAVA**

**OBJECTIVE:** To understand arrays and its memory allocation.

# LAB TASKS

1. Write a program that takes two arrays of size 4 and swap the elements of those arrays.

CODE:

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OUTPUT:

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1. Add a method in the class that takes array and merge it with the existing one.

CODE:

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OUTPUT:

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1. In a JAVA program, take an array of type string and then check whether the strings are palindrome or not

CODE:

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OUTPUT:

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1. Given an array of integers, count how many numbers are even and how many are odd.

CODE:

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OUTPUT:

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1. Given two integer arrays, merge them and remove any duplicate values from the resulting array.

CODE:

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OUTPUT:

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# HOME TASKS

1. Write a program that takes an array of Real numbers having size 7 and calculate the sum and mean of all the elements. Also depict the memory management of this task.

CODE:

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OUTPUT:

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1. Add a method in the same class that splits the existing array into two. The method should search a key in array and if found splits the array from that index of the key.

CODE:

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OUTPUT:

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1. Given an array of distinct integers and a target integer, return all unique combinations of numbers that add up to the target. Each number can be used only once in the combination.

CODE:

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OUTPUT:

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1. You are given an array containing n distinct numbers taken from 0, 1, 2, ..., n. Write a program to find the one number that is missing from the array.

CODE:

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OUTPUT:

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1. You are given an array of integers. Write a program to sort the array such that it follows a zigzag pattern: the first element is less than the second, the second is greater than the third, and so on.

CODE:

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OUTPUT:

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