**JAVA TEST**

**Code 1: Merge Arrays**

**import java.util.\*;**

**public class MergeArrays {**

**public static void main(String[] args) {**

**int arr1[] = {2, 4, 6, 8};**

**int n1 = arr1.length;**

**int arr2[] = {10, 12, 14, 16};**

**int n2 = arr2.length;**

**int arr3[] = new int[n1 + n2];**

**MergeArrays(arr1, arr2, n1, n2, arr3);**

**System.out.println("Array after merging");**

**for (int i=0; i < n1+n2; i++)**

**System.out.print(arr3[i] + " ");**

**}**

**public static void MergeArrays(int[] arr1, int[] arr2, int n1, int n2, int[] arr3){**

**int i = 0;**

**int j = 0;**

**int k = 0;**

**while(i < n1){**

**arr3[k++] = arr1[i++];**

**}**

**while(j < n2){**

**arr3[k++] = arr2[j++];**

**}**

**Arrays.sort(arr3);**

**}**

**}**