Java Assignment – 3
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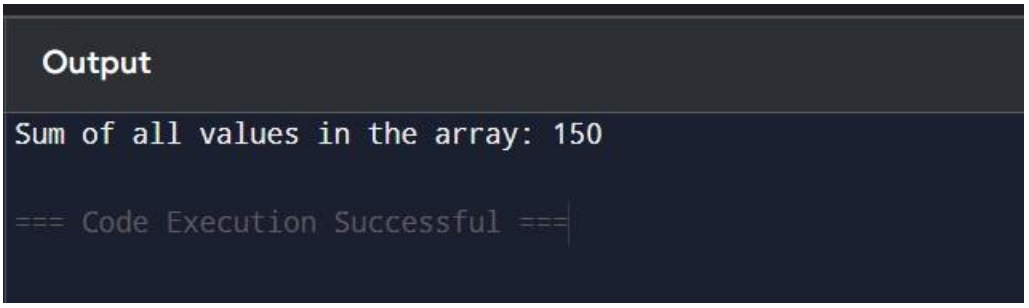
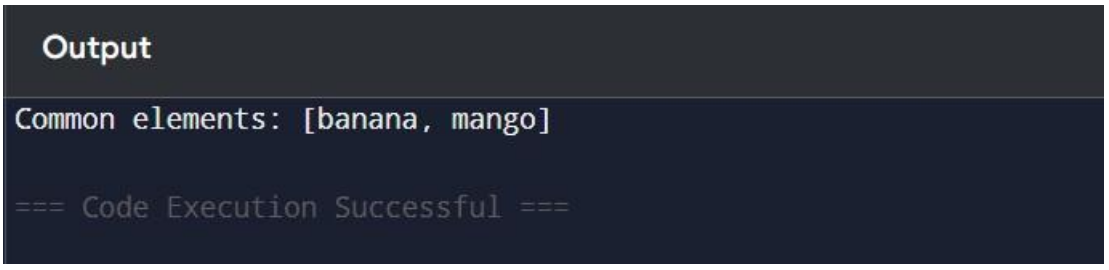
1. Find the Sum all values in an array.

```
 public class ArraySum {
   public static void main(String[] args) {
int[] numbers = {10, 20, 30, 40, 50};        int
sum = 0;
      for (int i = 0; i < numbers.length; i++) {
sum += numbers[i];
      }
      System.out.println("Sum of all values in the array: " + sum);
   }
}
```



2.Find the Common elements in two string arrays.

```
public class CommonElements {
   public static void main(String[] args) {
      String[] arr1 = {"apple", "banana", "cherry", "mango"};
      String[] arr2 = {"grape", "banana", "mango", "orange"};
      HashSet<String> set1 = new HashSet();
HashSet<String> common = new HashSet();
for (String item : arr1) {           set1.add(item);
      }
      for (String item : arr2)
{
         if (set1.contains(item))
 {
            common.add(item);
         }
      }
      System.out.println("Common elements: " + common);
   }
}
```



Q.3 Find out the Transpose of given Array.

```
public class TransposeMatrix {     public
static void main(String[] args) {
        int[][] matrix = {
            {1, 2, 3},
            {4, 5, 6}
           }
        int rows = matrix.length;         int cols
= matrix[0].length;         int[][] transpose =
new int[cols][rows];         for (int i = 0; i <
rows; i++) {             for (int j = 0; j < cols;
j++) {
                transpose[j][i] = matrix[i][j];
            }
        }
        System.out.println("Transpose of the matrix:");
        for (int i = 0; i < cols; i++) {
for (int j = 0; j < rows; j++) {
                System.out.print(transpose[i][j] + " ");
            }
            System.out.println();
        }
    }
}
```