1.WAP to copy all elements of one array into another array
Example Input:
SourceArray = [1, 2, 3, 4, 5]

Example Output:
CopiedArray = [1, 2, 3, 4, 5]

2.WAP to find the frequency of each element in the array
Example Input:
InputArray = [2, 3, 2, 5, 3, 7, 2, 5, 3]
Example Output:
ElementFrequencies = {2: 3, 3: 3, 5: 2, 7: 1

3. WAP to left rotate the elements of an array
Example Input:
OriginalArray = [1, 2, 3, 4, 5]
Example Output:
tRotatedArray [2, 3, 4, 5, 1]

4. WAP to take elements of and array from user and find duplicate elements.
Example Input:
InputArray = [3, 2, 5, 2, 7, 4, 5]
Example Output:
DuplicateElements = [2, 5]

5. WAP to take elements of an array from user and print elements .
Example Input:
rayElements = [8, 3, 5, 2, 1]
Example Output:
Elements = [8, 3, 5, 2, 1]

6. WAP to take elements of an array from user and print the elements of an array in reverse order
Example Input:
riginalArray = ["A", "B", "C", "D", "E"]
Example Output:
ReversedArray = ["E", "D", "C", "B", "A"]

7. WAP to take elements of an array from user and print the elements of an array present on even position
Example Input:
InputArray = [10, 20, 30, 40, 50]
Example Output:
lements = [20, 40]

8. WAP to take elements of an array from user and print the elements of an array present on odd position
Example Input:
InputArray = [11, 22, 33, 44, 55]
Example Output:
Elements = [22, 44]

9. WAP to take elements of an array from user and print the largest element in an array
Example Input:
rrayElements = [15, 8, 27, 12, 35]
Example Output:
LargestElement = 35

10. WAP to take elements of an array from user and print the smallest element in an array
Example Input:
ArrayElements = [17, 29, 8, 14, 22]
Example Output:
SmallestElement = 8

11.WAP to take elements of an array from user and print the number of elements present in an array
Example Input:
ArrayElements = [5, 10, 15, 20, 25]
Example Output:
NumberOfElements = 5

12.WAP to take elements of an array from user and print the sum of all the items of the array
Example Input:
ArrayElements = [3, 7, 2, 8, 5]
Example Output:
SumOfItems = 25

13.WAP to take elements of an array from user and right rotate the elements of an array
Example Input:
OriginalArray = [1, 2, 3, 4, 5]
Example Output:
RightRotatedArray = [5, 1, 2, 3, 4]

14.WAP to take elements of an array from user and sort the elements of an array in ascending order.
Example Input:
UnsortedArray = [9, 3, 6, 1, 8]
Example Output:
AscendingSortedArray = [1, 3, 6, 8, 9]

15.WAP to take elements of an array from user and sort the elements of an array in descending order
Example Input:
UnsortedArray = [7, 2, 9, 4, 1]
Example Output:
DescendingSortedArray = [9, 7, 4, 2, 1]

16.Find 3rd Largest Number in an Array
Example Input:
ArrayElements = [15, 7, 22, 13, 19]
Example Output:
ThirdLargest = 15

17. Find 2nd Largest Number in an Array
Example Input:

ArrayElements = [12, 5, 18, 7, 10]
Example Output:
SecondLargest = 12

18.Find Largest Number in an Array
Example Input:
ArrayElements = [30, 15, 25, 40, 20]
Example Output:
LargestNumber = 40

19.Find 2nd Smallest Number in an Array
Example Input:
ArrayElements = [8, 12, 5, 10, 15]
Example Output:
SecondSmallest = 8

20. Find Smallest Number in an Array
Example Input:
ArrayElements = [18, 7, 15, 22, 10]
Example Output:
SmallestNumber = 7

21.Remove Duplicate Element in an Array
Example Input:
OriginalArray = [3, 8, 5, 3, 7, 8]
Example Output:
ArrayWithoutDuplicates = [3, 8, 5, 7]

22.WAP to take two matrix from user and Add Two Matrices
Example Input:
MatrixA = [[1, 2], [3, 4]]
MatrixB = [[5, 6], [7, 8]]
Example Output:
SumMatrix = [[6, 8], [10, 12]]

23.WAP to take two matrix and Multiply Two Matrices

Example Input:
MatrixA = [[1, 2], [3, 4]]
MatrixB = [[5, 6], [7, 8]]
Example Output:
ProductMatrix = [[19, 22], [43, 50]]

24.Print Odd and Even Number from an Array
Example Input:
ArrayElements = [9, 12, 7, 16, 5]
Example Output:
OddNumbers = [9, 7, 5]
EvenNumbers = [12, 16]

25.WAP to take matrix and find the transpose of the matrix
Example Input:
OriginalMatrix = [[1, 2, 3], [4, 5, 6], [7, 8, 9]]
Example Output:
TransposedMatrix = [[1, 4, 7], [2, 5, 8], [3, 6, 9]]

26.Java Program to subtract the two matrices
Example Input:
MatrixA = [[5, 4], [3, 2]]
MatrixB = [[2, 1], [3, 4]]
Example Output:
SubtractedMatrix = [[3, 3], [0, -2]]

27. Java Program to determine whether a given matrix is an identity matrix
Example Input:
IdentityMatrix = [[1, 0, 0], [0, 1, 0], [0, 0, 1]]
Example Output:
IsIdentityMatrix = true

28.Java Program to determine whether a given matrix is a sparse matrix
Example Input:
SparseMatrix = [[1, 0, 0], [0, 0, 0], [0, 0, 0]]
Example Output:

IsSparseMatrix = true

29. Java Program to determine whether two matrices are equal
Example Input:
MatrixA = [[1, 2], [3, 4]]
MatrixB = [[1, 2], [3, 4]]
Example Output:
AreMatricesEqual = true

30. Java Program to display the lower triangular matrix
Example Input:
OriginalMatrix = [[1, 0, 0], [2, 3, 0], [4, 5, 6]]
Example Output:
LowerTriangularMatrix = [[1, 0, 0], [2, 3, 0], [4, 5, 6]]