2D Array Assignments in Java

1. Write a Java program to declare a 3x3 matrix and initialize it with user input values. Print the matrix.

2. Write a Java program to find the sum of all elements in a 2D array.

3. Write a program to find the row-wise sum of a 2D array and display the result.

4. Write a program to find the column-wise sum of a 2D array and display the result.

5. Write a Java program to perform the addition of two 3x3 matrices.

6. Write a Java program to perform the subtraction of two 3x3 matrices.

7. Write a Java program to multiply two matrices. (Check matrix multiplication rule)

8. Write a Java program to find the transpose of a matrix.

9. Write a Java program to print the elements of the main diagonal of a 2D array.

10. Write a Java program to print the elements of the secondary diagonal of a 2D array.

11. Write a Java program to search an element in a 2D array.

12. Write a Java program to sort each row of a 2D array in ascending order.

13. Write a Java program to find the maximum and minimum element in a 2D array.

14. Write a Java program to implement a jagged array and display its elements.

15. Write a Java program to check whether a 2D matrix is symmetric or not.