String Methods Tasks

- 1. Write a program to use the length() method and find the length of a given string.
- 2. Demonstrate the use of concat() by combining two strings and printing the result.
- 3. Create a string and print the character at index 3 using the charAt() method.
- 4. Extract a substring from the 3rd to the 8th character of a string using the substring() method.
- 5. Convert a mixed-case string to both lowercase and uppercase using toLowerCase() and toUpperCase() methods.
- 6. Trim leading and trailing spaces from a string and print the result using the trim() method.
- 7. Replace all occurrences of a space in a string with an underscore using the replace() method.
- 8. Compare two strings using equals() and print whether they are equal.
- 9. Find the index of the first and last occurrence of a specific character in a string using index0f() and lastIndex0f().

Array Methods Tasks

- 1. Create two integer arrays and compare them lexicographically using the compare() method. Print the result.
- 2. Copy the contents of an array into a new array with an extended length using copyOf() and print the resulting array.
- 3. Create two multidimensional arrays and check if they are deeply equal using deepEquals().
- 4. Compare two arrays element-by-element using the equals() method and print whether they are the same.
- 5. Use the fill() method to fill an array of size 5 with the value 7 and print the resulting array.
- 6. Find the first index where two arrays differ using the mismatch() method and print the index.

7. Sort an integer array and a character array using the sort() method, and print both sorted arrays.