TypeScript Assignments on Arrays & Strings

1. Add an element to the end of an array using push.

2. Remove the last element from an array using pop.

3. Remove the first element from an array using shift.

4. Add elements at the beginning of an array using unshift.

5. Concatenate two arrays using concat.

6. Extract a subarray using slice.

7. Insert and delete elements using splice.

8. Find the index of a specific element using indexOf.

9. Check if an element exists in an array using includes.

10. Convert an array to a string using toString.

11. Iterate through an array using forEach and print each element.

12. Create a new array by doubling the values using map.

13. Filter out even numbers from an array using filter.

14. Find the sum of all numbers using reduce.

15. Check if at least one element is even using some.

16. Check if all elements are positive using every.

17. Remove duplicates from an array using filter and indexOf.

18. Reverse an array.

19. Find the length of a string.

20. Convert a string to uppercase using toUpperCase.

21. Convert a string to lowercase using toLowerCase.

22. Get a character at a specific index using charAt().

23. Find the position of a word using indexOf().

24. Check if a string includes a word using includes().

25. Check if a string starts with a specific word using startsWith().

26. Check if a string ends with a specific word using endsWith().

27. Replace a word in a sentence using replace().

28. Split a sentence into words using split() and remove leading/trailing spaces using trim().