**Practice Question on arrays in JavaScript**

1: Temperature Conversion

Write a JavaScript function that takes an array of temperatures in Celsius and uses the `map` method to convert each temperature to Fahrenheit using the formula `(Celsius \* 9/5) + 32`. Return a new array containing the converted temperatures.

2: Calculate Total Expenses

Write a JavaScript function that takes an array of expenses and uses the `reduce` method to calculate the total amount spent. Return the total amount.

3: Filtering Passing Scores

Write a JavaScript function that takes an array of test scores and uses the `filter` method to return a new array containing only the passing scores (scores greater than or equal to 60).

4: Logging Names

Write a JavaScript function that takes an array of names and uses the `forEach` method to log each name to the console.

5: Sorting Numbers

Write a JavaScript function that takes an array of numbers and uses the `sort` method to sort the numbers in ascending order. Return the sorted array.

6: Fill an Array

Write a JavaScript function that takes an array of zeros and uses the `fill` method to fill the array with a specified value. Return the modified array.

7: Checking for Even Numbers

Write a JavaScript function that takes an array of numbers and uses the `some` method to check if the array contains at least one even number. Return `true` if an even number is found, otherwise `false`.

8: Checking for All Passes

Write a JavaScript function that takes an array of test scores and uses the `every` method to check if all the scores are passing (scores greater than or equal to 60). Return `true` if all scores are passing, otherwise `false`.

9: Flatten Nested Arrays

Write a JavaScript function that takes an array containing nested arrays and uses the `flat` method to flatten the array (remove nesting). Return a single-level array.

10: Mapping and Flattening

Write a JavaScript function that takes an array of words and uses the `flatMap` method to split each word into its individual characters and return a single-level array of characters.

11: Finding Specific Element

Write a JavaScript function that takes an array of objects representing books and uses the `find` method to find and return the book with a specific title.

12: Finding Index of Specific Element

Write a JavaScript function that takes an array of strings representing colors and uses the `findIndex` method to find and return the index of a specific color in the array.

13: Calculate Square of Numbers

Write a JavaScript function that takes an array of numbers and uses the `map` method to calculate the square of each number. Return a new array containing the squared values.

14: Extract First Names

Write a JavaScript function that takes an array of full names and uses the `map` method to extract and return an array of first names.

15: Calculate Product of Numbers

Write a JavaScript function that takes an array of numbers and uses the `reduce` method to calculate the product of all the numbers. Return the product.

16: Flatten Nested Arrays

Write a JavaScript function that takes an array containing nested arrays and uses the `reduce` method to flatten the array (remove nesting). Return a single-level array.

17: Filter Palindromic Words

Write a JavaScript function that takes an array of words and uses the `filter` method to return a new array containing only the palindromic words (words that read the same forwards and backwards).

18: Filter Unique Numbers

Write a JavaScript function that takes an array of numbers and uses the `filter` method to return a new array containing only the unique numbers (remove duplicates).

19: Calculate Sum of Numbers

Write a JavaScript function that takes an array of numbers and uses the `forEach` method to calculate the sum of all the numbers. Log the sum to the console.

20: Display Even Numbers

Write a JavaScript function that takes an array of numbers and uses the `forEach` method to display (console.log) only the even numbers.

21: Sort String Array:-

Write a JavaScript function that takes an array of strings and uses the `sort` method to sort the strings in alphabetical order. Return the sorted array.

22: Sort Objects by Age

Write a JavaScript function that takes an array of objects representing people with `name` and `age` properties, and uses the `sort` method to sort the objects by age in ascending order. Return the sorted array.