# **JavaScript Tasks**

# **Section: Arrays**

### **Basic Array Manipulation**

- 1. Create an array with five fruit names and print the second element.
- 2. Replace the third element of an array with "Mango" and print the updated array.
- 3. Create an empty array and add three colors to it using push(). Print the array.
- 4. Remove the last element of an array using pop() and print the removed element.
- 5. Add two numbers at the beginning of an array using unshift() and print the array.
- 6. Remove the first element of an array using shift() and print the updated array.
- 7. Print the length of an array containing four elements.
- 8. Extract the last two elements from an array using slice() and print them.
- 9. Extract the middle element(s) of an array with an even number of elements using slice().
- 10. Replace two middle elements in an array using splice() and print the updated array.

### Push, Pop, Shift, and Unshift

- 11. Create an array of three cities and add a new city at the end using push().
- 12. Remove the last city from an array using pop() and print the updated array.
- 13. Add two new colors to the beginning of an array using unshift() and print the array.
- 14. Remove the first color from an array using shift() and print the removed color.
- 15. Use push() twice to add two new names to an array and print the array.
- 16. Use pop() on an array of five elements and check if the length is now four.
- 17. Use shift() on an array with three elements and print the updated array.
- 18. Use unshift() to add a new number at the beginning of an array and print it.
- 19. Create an array of three numbers, remove the last one using pop(), and print the remaining array.
- 20. Create an array with three elements, remove the first using shift(), and print the updated array.

## Slice and Splice

- 21. Extract the first three elements from an array using slice() and print them.
- 22. Extract elements from index 2 to 4 using slice() and print them.

- 23. Remove two elements from an array starting from index 1 using splice().
- 24. Insert "Lemon" and "Orange" at index 2 in an array using splice() and print the updated array.
- 25. Remove the last two elements using splice() and print the modified array.
- 26. Use splice() to add three new numbers at the beginning of an array and print the array.
- 27. Create an array with six elements, extract the last four using slice(), and print them.
- 28. Use slice() on an array and check if the original array remains unchanged.
- 29. Use splice() to remove one element from the middle of an array and print the updated array.
- 30. Use splice() to replace two elements in an array and print the modified array.

### Pass by Reference

- 31. Assign an array to another variable and modify the original array. Print both variables.
- 32. Create a function that adds an element to an array and check if the original array changes.
- 33. Pass an array to a function, modify its first element, and print the modified array.
- 34. Create an array, pass it to another variable, modify the second variable, and print both.
- 35. Check if two variables referencing the same array are equal after modifying one.
- 36. Create an array, pass it to a function that removes an element, and print the result.
- 37. Store an array in two different variables, modify one using push(), and print both.
- 38. Use pop() on an array inside a function and see if the original array changes.
- 39. Pass an array to a function that changes its length and check the effect.
- 40. Create two separate arrays with identical elements and check if they are strictly equal.