

JavaScript Objects

Logic-Based (Objects + Arrays + Loops)

1. Display Student Info

Given an array of student objects, display each student's name and marks in a table using DOM.

2. Find Top Scorer

From a list of student objects with names and scores, find and display the top scorer.

3. Filter Products by Price Range

Create a function that takes a min and max price and filters an array of product objects accordingly.

4. Count Word Frequencies

Given a paragraph from a textarea, count the frequency of each word and display it as a list.

5. Group Users by Role

Given an array of user objects (`{name, role}`), group and display users under role headings.

6. Sort Products by Price

Display a list of products sorted by price (ascending/descending toggle via button).

7. Dynamic Form Inputs to Object

Create a form with name, email, and age. On submit, convert the input into an object and show the result.

8. Render Nested Object Data

Given a nested object like a user with address, display all info in a structured format in the DOM.

9. Calculate Cart Total

Given an array of cart items (`{name, price, quantity}`), display a full cart with totals using DOM.

10. Checkbox Filter

Display a list of items. Use checkboxes to filter them (e.g., categories like "Fruits", "Vegetables").

DOM Interaction + Objects + Events

11. Live Search List

From an array of names or products, filter the list as the user types into an input field.

12. To-Do App with Object Tasks

Each to-do item is an object (`{title, completed}`). Render list, allow marking as complete, and remove on click.

13. Form to Object Array

Let users submit a form multiple times. Store each entry as an object in an array and display all entries in real time.

14. Edit Object in List

Display a list of users with "Edit" buttons. On click, allow editing and update the object and UI.

15. Dynamic Table Generator

Given an array of objects, generate a table with headers based on object keys and rows based on values.

Problem Solving / Deeper Logic

16. Frequency of Characters

Take an input string, count character frequencies using an object, and display results.

17. Nested Category Display

Render categories and subcategories from a nested object structure using recursion (tree view style).

18. Sort by Multiple Properties

Sort an array of student objects first by grade, then by name if grades are equal.

19. Search and Highlight

Search through an array of paragraph texts, highlight matches using DOM manipulation.

20. Custom Dropdown from Object Data

Use a country object (`{code: "IN", name: "India"}`) to populate a dropdown. On select, show selected country's details.