

1. JavaScript Equality Operators (== vs ===)

- == checks for equality with type conversion.
- === checks for equality without type conversion.

2. Async/Await vs Promises

- async/await provides a cleaner way to handle Promises.
- Promises handle async operations with .then()/.catch().
- async/await is built on top of Promises.

3. Function Output: add(2, "3")

- Output: "23" (string concatenation due to type coercion).

4. RESTful API - Retrieve Blog Posts by Tag

- Correct: GET /posts?tag=JavaScript

5. String Manipulation Function

Input: "JavaScript is Fun!"

Output: JaVaScRiPt iS FuN!

6. Python Function: func(3) + func(4)

- Output: 25

7. Handling Async in JS

- Use Promises (and async/await).
- setTimeout delays execution but is not robust for async flow.
- Synchronous functions and loops are not designed for async.

8. RESTful API with Large Datasets

- Best practice: Caching

9. CORS Header for Cross-Domain AJAX

- Use: Access-Control-Allow-Origin

10. Variable Hoisting in JS

Example: `console.log(x); var x = 5;` logs "undefined"

11. Modifying Shared Variable in Nested Functions

Output:

inner1

outer shared

inner2

inner shared