# INTERVIEW QUESTIONS

1. What is Fetch API?  
   Answer: Fetch is a modern, Promise-based browser API for making HTTP requests that returns Response objects and supports methods, headers, and bodies.
2. How do promises work?  
   Answer: A Promise represents an eventual result of an asynchronous operation with states pending, fulfilled, or rejected, and is handled via then, catch, and finally.
3. Difference between synchronous and asynchronous code?  
   Answer: Synchronous code runs sequentially and blocks until each step finishes, whereas asynchronous code is non-blocking and continues while waiting for operations to complete.
4. How to handle errors in Fetch?  
   Answer: Handle network failures with catch, check response.ok or response.status for non-2xx responses, and in async/await use try/catch and throw on bad statuses.
5. What is JSON?  
   Answer: JSON is a lightweight, text-based data interchange format using key–value pairs and arrays, language-agnostic but derived from JavaScript syntax.
6. What is CORS?  
   Answer: CORS is a browser security policy that controls cross-origin requests using server-provided Access-Control-Allow-\* headers and optional preflight checks.
7. How to parse JSON?  
   Answer: Use JSON.parse for raw JSON strings, or call response.json() on a Fetch Response to asynchronously parse the body into a JavaScript object.
8. Explain async/await.  
   Answer: async/await is syntax built on Promises that makes asynchronous code read like synchronous; await pauses inside async functions until a Promise settles, typically wrapped in try/catch.
9. What are HTTP status codes?  
   Answer: They are standardized numeric response codes grouped as 1xx (info), 2xx (success), 3xx (redirect), 4xx (client error), and 5xx (server error), e.g., 200, 201, 204, 400, 401, 403, 404, 500.
10. What is REST API?  
    Answer: REST is an architectural style for stateless client–server communication where resources are addressed by URIs and manipulated using standard HTTP methods and representations.