Javascript Essentials And Advanced

1 JavaScript Essentials (Basics)

These are the fundamentals every developer must know.

Topic	Summary
Variables	var, let, and const for storing values.
Data Types	Number, String, Boolean, Object, Array, Null, Undefined, Symbol.
Operators	+, -, *, /, ===, !==, &&, `
Conditions	if, else, switch to control flow.
Loops	for, while, for...of, for...in for repetition.
Functions	Reusable blocks: function, arrow functions () => {}.
Objects & Arrays	Key structures for storing data.
Events	Handle user interactions using onclick, onchange, etc.
DOM Manipulation	document.getElementById(), innerHTML, etc.
JSON	Convert data with JSON.stringify() and JSON.parse().

2: JavaScript Advanced Concepts

These topics take your JS skills to a professional level — must-know for React, APIs, and large apps.

Topic	Summary
Hoisting	JS moves var and function declarations to the top before execution.
Closures	A function remembers its lexical scope even when run outside of it.
Callback Functions	Passing one function into another.
Promises	Handle async operations (.then, .catch).
Async/Await	Cleaner way to handle async code.
Event Loop	JS is single-threaded but uses a queue for async events.

Topic	Summary
Prototype & Inheritance	Objects inherit from other objects via prototype chain.
this Keyword	Refers to the current object context.
Arrow Functions	() => {}: shorter function syntax with lexical this.
Destructuring	Extract values from arrays/objects easily.
Spread/Rest Operator	... to expand or collect multiple values.
Modules (import/export)	Organize code across multiple files.
Map, Filter, Reduce	Functional methods for working with arrays.
Optional Chaining ?.	Avoid errors with nested properties.
Nullish Coalescing ??	Fallback value when null or undefined.
SetTimeout / SetInterval	Timers for delayed or repeated tasks.
Debounce/Throttle	Limit function call rate (performance).

🎯 Bonus Advanced Topics (for React/Node Devs)

Topic	Summary
ES6+ Features	let/const, template literals, destructuring, arrow functions.
Fetch/Axios	Make API calls to servers.
LocalStorage/Session	Store data in the browser.
Error Handling	try...catch, custom error messages.
IIFE (Immediately Invoked Function Expression)	Auto-run a function.
Currying	Convert function with multiple args into nested functions.

☑️ Summary:

Essentials give you the base to build anything.
Advanced concepts help you write clean, scalable, and professional JavaScript code.