

JavaScript Assignment

Q1. Compare var, let, and const in JavaScript. When would you use each?

In JavaScript, variables can be declared using var, let, and const. Var is function-scoped and allows redeclaration and reassignment. Let is block-scoped and allows reassignment but not redeclaration. Const is block-scoped and does not allow reassignment, making it safest.

Q2. What is Hoisting in JavaScript?

Hoisting is a JavaScript mechanism where variable declarations are moved to the top of their scope. Var variables are initialized with undefined, while let and const remain in the temporal dead zone.

Q3. Explain JavaScript's dynamic typing and the typeof operator.

JavaScript is dynamically typed, meaning variables can change type at runtime. The typeof operator is used to check variable data types.

Q4. How can you manipulate strings in JavaScript?

JavaScript provides methods like length, toUpperCase(), toLowerCase(), slice(), replace(), and includes().

Q5. Difference between null and undefined.

Null is an intentional absence of value, while undefined means a variable has not been assigned a value.