100 JavaScript Interview Questions

With Answers, Code Examples & Real-Life Explanations

Introduction

Welcome to the "Top 100 JavaScript Interview Questions with Answers, Code Examples & Real-Life Explanations" — your ultimate guide to mastering JavaScript for interviews and real-world development.

Whether you're preparing for a frontend role, full-stack interview, or just brushing up on key JavaScript concepts, this PDF is structured to help you succeed. Each question includes a clear explanation, relevant code example, and insights that go beyond memorization — helping you understand **why** things work, not just **how**.

These questions are carefully selected from real interview experiences, covering:

- Core JavaScript fundamentals
- Modern ES6+ syntax and features
- Asynchronous JavaScript (Promises, async/await)
- Advanced topics like closures, hoisting, scope, memory, and performance
- Hands-on practical examples used in real applications

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JavaScript Interview Questions

1. What is JavaScript?

Answer: JavaScript is a high-level, interpreted programming language used to make web pages interactive. It's a core technology of the web alongside HTML and CSS.

• Example:

```
js
alert('Hello, world!');
```

Explanation:

This code creates a popup alert with the message "Hello, world!" in the browser.

2. Difference between var, let, and const?

Answer:

- var is function-scoped.
- let and const are block-scoped.
- const cannot be reassigned.

• Example:

```
js
var x = 10;
let y = 20;
const z = 30;
```

Explanation:

x can be used across functions. y and z are limited to their block. z is constant.

3. What are arrow functions?

Answer: Arrow functions are a concise way to write functions. They do not bind their own this.

• Example:

```
const greet = name => `Hello, ${name}`;
console.log(greet('Rachit')); // Hello, Rachit
```

Explanation:

This function takes a name and returns a greeting using template literals.

4. What is a closure?

Answer: A closure is a function that retains access to its lexical scope even after the outer function has returned.

• Example:

```
function outer() {
  let count = 0;
  return function inner() {
    return ++count;
  };
}
const counter = outer();
console.log(counter()); // 1
```

Explanation:

inner() retains access to count even after outer() finishes.

5. Difference between == and ===?

Answer:

- == compares values after type conversion.
- === compares value and type (strict equality).

• Example:

```
js
'5' == 5  // true
'5' === 5  // false
```

Explanation:

== converts types. === requires both type and value to match.

6. What is hoisting?

Answer: JavaScript hoists declarations (not initializations) to the top of their scope.

• Example:

```
js
console.log(a); // undefined
var a = 5;
```

Explanation:

The variable a is hoisted and initialized as undefined.

7. What is NaN?

Answer: NaN stands for "Not-a-Number". It represents an invalid number operation.

```
js
let a = 'abc' / 2;
console.log(a); // NaN
```

You can't divide a string by a number, resulting in NaN.

8. What is a callback function?

Answer: A callback is a function passed as an argument to another function.

• Example:

```
function greet(callback) {
  console.log('Hi');
  callback();
}
greet(() => console.log('Bye'));
```

Explanation:

The callback runs after 'Hi' is printed.

9. What are template literals?

Answer: Template literals are string literals using backticks `. They support embedded expressions.

• Example:

```
js
let name = 'Rachit';
console.log(`Hello, ${name}!`);
```

Explanation:

\${name} is replaced with the variable's value.

10. What is an IIFE?

Answer: Immediately Invoked Function Expression — a function that runs as soon as it's defined.

• Example:

```
js

(function() {
  console.log('IIFE');
})();
```

Explanation:

Helps avoid polluting the global scope.

11. What is the difference between null and undefined?

Answer:

- null is an assigned value meaning "no value".
- undefined means a variable has been declared but not assigned.

• Example:

```
let a;
let b = null;
console.log(a); // undefined
console.log(b); // null
```

Explanation:

Use null intentionally. undefined often results from missing assignment.

12. What is the use of setTimeout()?

Answer: Executes code after a delay.

• Example:

```
js
setTimeout(() => console.log('Delayed'), 1000);
```

Explanation:

Prints after 1 second.

13. Explain event bubbling.

Answer: Events propagate from child to parent elements.

• Example:

```
document.getElementById("child").addEventListener("click", () => {
  console.log("Child clicked");
});
document.getElementById("parent").addEventListener("click", () => {
  console.log("Parent clicked");
});
```

Explanation:

Clicking child triggers both handlers.

14. What are Promises?

Answer: Promises represent a future value — a wrapper for asynchronous operations.

```
js
let p = new Promise((resolve, reject) => {
  resolve("Success");
```

```
});
p.then(result => console.log(result));
```

resolve passes value to .then() callback.

15. What is async/await?

Answer: Syntactic sugar over Promises for cleaner async code.

• Example:

```
js
async function getData() {
  let res = await fetch('/api');
  let data = await res.json();
}
```

Explanation:

await pauses execution until the promise resolves.

16. What are higher-order functions?

Answer: Functions that take other functions as arguments or return functions.

• Example:

```
js const double = n \Rightarrow n * 2; const apply = (fn, x) \Rightarrow fn(x); console.log(apply(double, 4)); // 8
```

Explanation:

apply uses double function as input.

17. What is destructuring?

Answer: Extracting values from arrays or objects into variables.

• Example:

```
js
```

```
let [a, b] = [1, 2];
let {name} = {name: 'Rachit', age: 25};
```

Explanation:

```
a = 1, b = 2, and name = 'Rachit'.
```

18. Difference between map and for Each?

Answer:

- map returns a new array.
- forEach doesn't return anything.

• Example:

js

```
[1,2,3].map(x => x * 2); // [2,4,6] [1,2,3].forEach(x => x * 2); // undefined
```

Explanation:

Use map when transformation is needed.

19. What is the spread operator?

Answer: . . . expands elements from an iterable.

• Example:

```
js
let arr = [1, 2];
let newArr = [...arr, 3]; // [1, 2, 3]
```

Explanation:

Combines arrays or copies objects easily.

20. What is typeof operator?

Answer: Returns the data type of a value.

• Example:

```
typeof 'Hello'; // 'string'
typeof 5; // 'number'
```

Explanation:

Useful for type checking.

21. What is an object in JS?

Answer: A collection of key-value pairs.

• Example:

```
js
let user = {name: 'Rachit', age: 25};
```

Explanation:

Access properties with user.name.

22. How to reverse a string in JavaScript?

Answer: Convert to array, reverse, join.

• Example:

```
js
let str = 'hello';
let reversed = str.split('').reverse().join('');
```

Explanation:

```
split \rightarrow reverse \rightarrow join gives olleh.
```

23. What is JSON?

Answer: JavaScript Object Notation – a format for exchanging data.

• Example:

```
js
let obj = {name: 'Rachit'};
let str = JSON.stringify(obj);
```

Explanation:

Converts object to JSON string.

24. What is the use of localStorage?

Answer: Stores data in the browser with no expiration.

```
js
localStorage.setItem('name', 'Rachit');
```

Use to persist user settings.

25. What is the DOM?

Answer: Document Object Model — represents page structure in a tree.

• Example:

js

```
document.getElementById('main').innerText = 'Updated';
```

Explanation:

Allows JS to update page content.

26. What is event delegation in JavaScript?

Answer:

A technique where a single event listener is added to a parent element to manage events for its children.

• Example:

```
document.getElementById('list').addEventListener('click', function(e)
{
   if (e.target.tagName === 'LI') {
      console.log('Item clicked:', e.target.textContent);
   }
});
```

Explanation:

Instead of adding click events to each , we add one to the parent and detect clicks on its children.

27. What is the difference between function declaration and function expression?

Answer:

- Function declaration is hoisted.
- Function expression is not.

• Example:

```
greet(); // Works
function greet() {
  console.log('Hi');
}

sayHi(); // Error
const sayHi = function() {
  console.log('Hello');
};
```

Explanation:

Only function declarations are hoisted.

28. What is a pure function?

Answer:

A function that produces no side effects and returns the same output for the same input.

```
function add(a, b) {
  return a + b;
}
```

It doesn't modify anything outside and depends only on parameters.

29. Explain the difference between slice and splice.

Answer:

- slice() returns a shallow copy without modifying the original array.
- splice() modifies the array in place.

• Example:

```
js
let arr = [1, 2, 3, 4];
console.log(arr.slice(1, 3)); // [2, 3]
arr.splice(1, 2); // arr is [1, 4]
```

Explanation:

Use slice to copy, splice to change.

30. What is the event loop in JavaScript?

Answer:

The mechanism that handles execution of multiple chunks of code like callbacks, events, etc.

• Example:

```
console.log('Start');
setTimeout(() => console.log('Timeout'), 0);
console.log('End');
```

Explanation:

Even with 0 ms delay, setTimeout runs after synchronous code due to the event loop.

31. What is a promise chain?

Answer:

Chaining .then() methods together to run promises sequentially.

• Example:

```
fetch('/api')
   .then(res => res.json())
   .then(data => console.log(data));
```

Explanation:

Each then gets the result of the previous one.

32. What is optional chaining (?.) in JS?

Answer:

Allows safe access to deeply nested properties.

• Example:

```
js
let user = {};
console.log(user?.profile?.email); // undefined, no error
```

Explanation:

Avoids runtime errors if profile is undefined.

33. What is nullish coalescing (??)?

Answer:

Returns the right-hand side if the left is null or undefined.

• Example:

```
js
```

```
let name = null;
console.log(name ?? 'Guest'); // 'Guest'
```

Explanation:

Use when default value is needed only for nullish values.

34. Difference between synchronous and asynchronous?

Answer:

- Synchronous: tasks run sequentially.
- Asynchronous: tasks can run in the background.

• Example:

```
js
```

```
console.log('1');
setTimeout(() => console.log('2'), 0);
console.log('3');
```

Explanation:

Output: 1, 3, 2 — setTimeout is async.

35. What is a thunk?

Answer:

A function that returns another function, used in Redux middleware for async logic.

• Example:

```
const thunk = () => dispatch => {
  dispatch({ type: 'LOADING' });
};
```

Thunk delays the execution of an action.

36. What is the difference between for...of and for...in?

Answer:

- for...in iterates over object keys.
- for...of iterates over iterable values (arrays, strings).

• Example:

```
for (let key in {a:1, b:2}) console.log(key); // a, b
for (let val of [1,2]) console.log(val); // 1, 2
```

Explanation:

Choose based on what you're looping through.

37. What is memoization?

Answer:

Caching the result of expensive function calls.

```
js
let cache = {};
function fib(n) {
  if (n in cache) return cache[n];
```

```
if (n <= 1) return n;
return cache[n] = fib(n-1) + fib(n-2);
}</pre>
```

Avoids recalculating previously solved subproblems.

38. What is debouncing in JavaScript?

Answer:

Limits function execution by waiting until a delay has passed.

• Example:

```
function debounce(fn, delay) {
  let timer;
  return function() {
    clearTimeout(timer);
    timer = setTimeout(fn, delay);
  };
}
```

Explanation:

Prevents a function from firing too often (like search input).

39. What is throttling?

Answer:

Ensures a function runs only once every set interval.

```
function throttle(fn, limit) {
  let lastCall = 0;
```

```
return function() {
   if (Date.now() - lastCall > limit) {
      lastCall = Date.now();
      fn();
   }
};
```

Useful for scroll or resize events.

40. What are data attributes in HTML/JS?

Answer:

Custom attributes prefixed with data- used to store extra information.

• Example:

html

```
<div data-user-id="123"></div>
js
document.querySelector('div').dataset.userId; // "123"
```

Explanation:

Allows storing custom info on DOM elements.

41. What are the different types of errors in JS?

Answer:

- SyntaxError
- ReferenceError

TypeError

• Example:

```
js
// ReferenceError
console.log(x); // x is not defined
```

Explanation:

Different errors indicate different issues.

42. How to handle errors in JS?

Answer:

Using try...catch block.

• Example:

```
try {
  throw new Error("Something went wrong");
} catch (e) {
  console.log(e.message);
}
```

Explanation:

Catches runtime errors gracefully.

43. What is this in JavaScript?

Answer:

Refers to the current execution context.

• Example:

```
const obj = {
  name: 'Rachit',
  getName() {
    return this.name;
  }
};
```

this refers to obj inside getName.

44. How does bind() work?

Answer:

Returns a new function with a bound this.

• Example:

```
let greet = function() { console.log(this.name); };
let person = { name: 'Rachit' };
let bound = greet.bind(person);
bound(); // Rachit
```

Explanation:

Ensures this inside greet always refers to person.

45. What is the difference between call() and apply()?

Answer:

Both invoke functions with a specific this, but call uses arguments list, apply uses array.

• Example:

```
function greet(msg) {
  console.log(msg + this.name);
}
let user = { name: 'Rachit' };
greet.call(user, 'Hello ');
greet.apply(user, ['Hi ']);
```

Use whichever is convenient for your argument format.

46. What is a generator function?

Answer:

A function that can pause and resume using yield.

• Example:

```
function* gen() {
  yield 1;
  yield 2;
}
const g = gen();
console.log(g.next().value); // 1
```

Explanation:

yield returns value and pauses the function.

47. What is the new keyword in JS?

Answer:

Used to create instances from constructor functions.

• Example:

```
function Person(name) {
  this.name = name;
}
let p = new Person('Rachit');
```

new sets up a new object and binds this.

48. What are template engines in JS?

Answer:

Tools to render HTML with dynamic content (e.g., EJS, Handlebars).

• Example (EJS):

html

```
<h1><%= name %></h1>
```

Explanation:

Injects name variable into HTML.

49. What is the difference between innerHTML and textContent?

Answer:

- innerHTML parses HTML tags.
- textContent just sets plain text.
- Example:

```
is
el.innerHTML = "<b>Hello</b>";
el.textContent = "<b>Hello</b>";
```

Use textContent to avoid HTML injection.

50. What is strict mode in JS?

Answer:

A way to catch common coding mistakes by enabling "use strict".

• Example:

```
"use strict";
x = 10; // ReferenceError: x is not defined
```

Explanation:

Prevents using undeclared variables, etc.

51. What is Object.freeze()?

Answer:

Prevents modification of existing properties and prevents adding/removing properties.

• Example:

```
const obj = Object.freeze({ name: 'Rachit' });
obj.name = 'New'; // Won't change
```

Explanation:

Object.freeze() locks the object completely.

52. What is a Symbol in JavaScript?

Answer:

A primitive and unique data type used as object property keys.

• Example:

```
js
const sym = Symbol('id');
let user = {};
user[sym] = 123;
```

Explanation:

Symbols ensure that property keys won't collide.

53. What are rest parameters?

Answer:

Allows a function to accept an indefinite number of arguments as an array.

• Example:

```
function sum(...nums) {
  return nums.reduce((a, b) => a + b);
}
```

Explanation:

... nums collects arguments into an array.

54. How to clone an object?

Answer:

Using Object.assign() or spread operator.

• Example:

```
let clone = { ...original };
```

Creates a shallow copy of the object.

55. What is the difference between deep and shallow copy?

Answer:

- Shallow copy copies references of nested objects.
- Deep copy copies everything recursively.

• Example:

```
js
```

```
let obj = { a: { b: 1 } };
let shallow = { ...obj };
obj.a.b = 2;
console.log(shallow.a.b); // 2
```

Explanation:

Shallow copy still shares nested objects.

56. What is the typeof null?

Answer:

It returns 'object', which is a known bug in JavaScript.

```
js
```

```
console.log(typeof null); // 'object'
```

This is a quirk due to legacy reasons in JS.

57. What are falsy values in JS?

Answer:

Values that evaluate to false in Boolean context.

- Falsy Values:
 - false, 0, '', null, undefined, NaN

Explanation:

All other values are truthy.

58. How to check if a variable is an array?

Answer:

Use Array.isArray().

• Example:

js

Array.isArray([1, 2, 3]); // true

Explanation:

Avoids confusion with typeof which returns 'object'.

59. How does JSON.parse() and JSON.stringify() work?

Answer:

parse() turns JSON string to object; stringify() turns object to JSON string.

• Example:

```
let obj = JSON.parse('{"name":"Rachit"}');
let str = JSON.stringify(obj);
```

Used for data interchange or storage.

60. What is a tagged template literal?

Answer:

A function that processes a template literal.

• Example:

```
function tag(strings, name) {
  return strings[0] + name.toUpperCase();
}
tag`Hello ${'rachit'}`; // "Hello RACHIT"
```

Explanation:

Provides custom string formatting.

61. What are JavaScript modules?

Answer:

Files that export/import functionality using export and import.

```
js

// utils.js
export const add = (a, b) => a + b;

// app.js
import { add } from './utils.js';
```

Encapsulates code and promotes reusability.

62. What is a WeakMap?

Answer:

A Map where keys are only objects and entries are garbage-collected if keys are no longer referenced.

• Example:

```
js
let wm = new WeakMap();
let obj = {};
wm.set(obj, 'data');
```

Explanation:

Useful for memory-efficient key-value mapping.

63. What is function currying?

Answer:

Transforming a function that takes multiple arguments into nested functions.

```
function curry(a) {
  return function(b) {
    return a + b;
  };
}
curry(2)(3); // 5
```

Useful for partial function application.

64. What are default parameters?

Answer:

Set default values for function parameters.

• Example:

```
function greet(name = 'Guest') {
  return `Hello ${name}`;
}
```

Explanation:

Avoids undefined when no argument is passed.

65. How do you compare objects in JS?

Answer:

Use deep comparison (e.g., JSON method or libraries).

• Example:

```
js
```

```
JSON.stringify(obj1) === JSON.stringify(obj2);
```

Explanation:

Works for flat objects, not good for nested objects with different key order.

66. What is prototype chaining?

Answer:

Objects inherit properties from other objects via the prototype chain.

• Example:

```
function Person() {}
Person.prototype.greet = function() {
  return 'Hi';
};
let p = new Person();
```

Explanation:

p inherits from Person.prototype.

67. What is the difference between == and Object.is()?

Answer:

Object.is() is more accurate for edge cases like NaN.

• Example:

js

```
NaN == NaN // false
Object.is(NaN, NaN) // true
```

Explanation:

Object.is() compares more precisely.

68. What is call stack in JavaScript?

Answer:

A stack data structure used to keep track of function calls.

```
js
```

```
function a() { b(); }
```

```
function b() { c(); }
function c() { console.log('done'); }
a();
```

Each function call gets pushed and popped from the stack.

69. What is event loop and microtask queue?

Answer:

Event loop handles tasks and microtasks (like Promise.then()) before moving to the next task.

• Example:

```
js
setTimeout(() => console.log('timeout'), 0);
Promise.resolve().then(() => console.log('microtask'));
```

Explanation:

microtask runs before timeout.

70. What is destructuring assignment?

Answer:

Extract values from arrays or objects into variables.

• Example:

```
js
let {name} = {name: 'Rachit'};
let [a, b] = [1, 2];
```

Explanation:

Shorthand for pulling data out of structures.

71. What is optional parameter in functions?

Answer:

Parameters not required in function calls.

• Example:

```
function greet(name) {
  return `Hello ${name || 'Guest'}`;
}
```

Explanation:

Handles missing parameters gracefully.

72. What is the role of use strict?

Answer:

Prevents use of undeclared variables and other bad practices.

• Example:

```
js
"use strict";
x = 10; // Error
```

Explanation:

Adds stricter parsing and error handling.

73. How to convert a string to a number?

Answer:

```
Use Number(), unary +, or parseInt().
```

```
js
```

```
+'42'; // 42
Number('42'); // 42
parseInt('42'); // 42
```

All convert string to number.

74. How to remove duplicates from an array?

Answer:

Use Set.

• Example:

js

```
let unique = [...new Set([1,2,2,3])]; // [1,2,3]
```

Explanation:

Set only keeps unique values.

75. What is the purpose of Array.prototype.reduce()?

Answer:

Used to reduce an array to a single value.

• Example:

js

```
[1,2,3].reduce((a, b) \Rightarrow a + b, 0); // 6
```

Explanation:

Aggregates array elements.

76. What is the instanceof operator?

Answer:

Checks if an object is an instance of a particular class or constructor.

• Example:

```
js
```

```
let arr = [];
console.log(arr instanceof Array); // true
```

Explanation:

Returns true if the prototype chain includes the constructor.

77. What is Promise.all()?

Answer:

Takes an array of promises and resolves when all of them are resolved.

• Example:

js

```
Promise.all([Promise.resolve(1), Promise.resolve(2)])
  .then(values => console.log(values)); // [1, 2]
```

Explanation:

Used to run multiple async tasks in parallel.

78. What is a ternary operator?

Answer:

A shortcut for if-else.

• Example:

js

```
let age = 20;
let canVote = age >= 18 ? 'Yes' : 'No';
```

Evaluates a condition and returns one of two values.

79. What is object destructuring with aliasing?

Answer:

Assigns property value to a new variable name.

• Example:

```
const person = { name: 'Rachit' };
const { name: userName } = person;
```

Explanation:

userName now holds 'Rachit'.

80. How do you flatten a nested array?

Answer:

```
Use .flat() or recursion.
```

• Example:

js

```
[1, [2, [3]]].flat(2); // [1, 2, 3]
```

Explanation:

.flat() with depth flattens nested arrays.

81. What is dynamic typing in JS?

Answer:

Variables can hold values of any type and change types at runtime.

• Example:

```
js
let x = 5;
x = "Hello";
```

Explanation:

JavaScript is loosely typed.

82. What is a factory function?

Answer:

Returns an object, often used instead of classes.

• Example:

```
function createUser(name) {
  return { name };
}
```

Explanation:

No need for new or this.

83. What is lexical scope?

Answer:

A function's scope is defined by its physical location in code.

```
js
function outer() {
```

```
let x = 10;
function inner() {
   console.log(x);
}
```

inner has access to x due to lexical scope.

84. What is a polyfill?

Answer:

Code that adds modern features to older browsers.

• Example:

```
if (!Array.prototype.includes) {
   Array.prototype.includes = function(search) {
    return this.indexOf(search) !== -1;
   };
}
```

Explanation:

Implements includes() if it doesn't exist.

85. What is the difference between Object.seal() and Object.freeze()?

Answer:

- seal() prevents adding/removing props.
- freeze() makes properties immutable too.

freeze is stricter than seal.

86. What are global variables?

Answer:

Variables declared outside any function, accessible everywhere.

• Example:

```
js
```

```
var globalVar = "Hi";
```

Explanation:

Accessible throughout the code unless shadowed.

87. How to prevent modification of an object?

Answer:

```
Use Object.freeze().
```

• Example:

js

```
const config = Object.freeze({ debug: true });
```

Explanation:

Object is now read-only.

88. What is a callback hell?

Answer:

Nested callbacks that become hard to read and maintain.

```
doTask1(() => {
   doTask2(() => {
      doTask3(() => {
            // messy!
      });
   });
});
```

Leads to spaghetti code. Use Promises or async/await.

89. What is a higher-order component (HOC)?

Answer:

A React concept – functions that take a component and return a new one.

Explanation:

Used for code reuse (like authentication, logging).

90. How to generate random numbers in JS?

Answer:

```
Use Math.random().
```

• Example:

js

```
let num = Math.floor(Math.random() * 10); // 0 to 9
```

Explanation:

Multiply by range and round down.

91. What is NaN and how to check it?

Answer:

```
NaN = Not a Number. Use isNaN() or Number.isNaN().
```

• Example:

Explanation:

Number.isNaN() is more reliable.

92. What are template literals?

Answer:

Strings using backticks, support interpolation.

• Example:

```
js
let name = 'Rachit';
console.log(`Hi, ${name}`);
```

Explanation:

Backticks allow inline expressions.

93. How to merge two arrays?

Answer:

Use spread or concat.

```
js
let merged = [...arr1, ...arr2];
```

Combines arrays into one.

94. What is a constructor function?

Answer:

A function used to create instances using new.

• Example:

```
function Car(make) {
   this.make = make;
}
let honda = new Car('Honda');
```

Explanation:

Acts like a class.

95. What is a default case in switch?

Answer:

Executed if no case matches.

• Example:

```
switch(x) {
  case 1: break;
  default: console.log('No match');
}
```

Explanation:

Fallback when no other case applies.

96. What is recursion?

Answer:

A function calling itself.

• Example:

```
function fact(n) {
  if (n <= 1) return 1;
  return n * fact(n - 1);
}</pre>
```

Explanation:

Base case ends recursion.

97. How to compare two arrays?

Answer:

Use every() and length.

• Example:

```
function equal(a, b) {
  return a.length === b.length && a.every((v, i) => v === b[i]);
}
```

Explanation:

Compare lengths and each value.

98. What is .bind() method?

Answer:

Returns a new function with a fixed this.

• Example:

```
js

const greet = function() { console.log(this.name); };

const person = { name: 'Rachit' };

const boundGreet = greet.bind(person);

boundGreet(); // Rachit
```

Explanation:

Useful when passing methods as callbacks.

99. What is a WeakSet?

Answer:

A set that only holds objects, does not prevent garbage collection.

• Example:

```
js
let ws = new WeakSet();
let obj = {};
ws.add(obj);
```

Explanation:

Useful for temporary data.

100. How do modules work in JavaScript?

Answer:

Code is split into files using export and import.

```
js
// lib.js
```

```
export const pi = 3.14;

// app.js
import { pi } from './lib.js';
```

Promotes separation of concerns and code reuse.