DEVEN PARAB

JAVASCRIPT ARRAY METHODS

Roadmap for learning
React.js
(the right way)

```
push() // Adds an element to the end of an array.

courses.push("Node.js"); // ["HTML", "CSS", "JavaScript", "React", "Node.js"]

pop()  //Removes the last element from an array.

courses.pop(); // ["HTML", "CSS", "JavaScript", "React"]

unshift() //Adds an element to the beginning of an array.

courses.shift(); // ["CSS", "JavaScript", "React"]

shift() //Removes the first element from an array.

courses.shift(); // ["CSS", "JavaScript", "React"]

splice() //Removes or adds elements at a specific index.

courses.splice(1, 2); // Removes 2 elements starting from index 1: ["React"]

concat() //Combines two or more arrays.

let combined = courses.concat(otherCourses); // ["HTML", "CSS", "JavaScript", "React", "Node.js"]
slice() //Returns a shallow copy of a portion of an array.

let part = courses.slice(1, 3); // ["CSS", "JavaScript"]
```

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indexOf(): Returns the index of the first occurrence of an element.
let index = courses.indexOf("React"); // 3

includes(): Joins all elements into a string
let hasCourse = courses.includes("HTML"); // true

find(): Returns the first element that satisfies a condition.
let course = courses.find(course => course === "React"); // "React"

filter(): Returns a new array with elements that satisfy a condition.
let filteredCourses = courses.filter(course => course.includes("Java")); //
["JavaScript"]

map(): Creates a new array by applying a function to each element.
let courseLengths = courses.map(course => course.length); // [4, 3, 10, 5]

reduce(): Reduces an array to a single value.
let totalLength = courses.reduce((acc, course) => acc + course.length, 0); //
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forEach(): Executes a function for each array element.
courses.forEach(course => console.log(course)); // Logs each course
```

```
toString(): Converts an array to a string.
let courseString = courses.toString(); // "HTML,CSS,JavaScript,React"

join(): Joins all elements into a string, separated by a specified delimiter.
let joinedCourses = courses.join(" - "); // "HTML - CSS - JavaScript - React"

reverse(): Reverses the order of elements in an array.
courses.reverse(); // ["React", "JavaScript", "CSS", "HTML"]

sort(): Sorts the elements of an array.
courses.sort(); // ["CSS", "HTML", "JavaScript", "React"]

Array.isArray(): Checks if a value is an array.
Array.isArray(courses); // true

flat(): Flattens a nested array.
let nestedArray = [1, [2, 3], [4, [5]]];
let flatArray = nestedArray.flat(); // [1, 2, 3, 4, [5]]

fill(): Fills all elements in an array with a static value.
let filledArray = new Array(3).fill("Web"); // ["Web", "Web", "Web"]
```

MORE TIPS COMING , FOLLOW

Deven Parab