<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Important JavaScript Methods</title>

<script>

// 1. Array.prototype.map()

const numbers = [1, 2, 3, 4, 5];

const squaredNumbers = numbers.map(function(num) {

return num \* num;

});

console.log("Squared Numbers:", squaredNumbers); // [1, 4, 9, 16, 25]

// 2. String.prototype.replace()

const text = "Hello, World!";

const newText = text.replace("World", "JavaScript");

console.log("Replaced Text:", newText); // "Hello, JavaScript!"

// 3. Array.prototype.filter()

const evenNumbers = numbers.filter(function(num) {

return num % 2 === 0;

});

console.log("Even Numbers:", evenNumbers); // [2, 4]

// 4. Object.keys()

const person = {

name: "John",

age: 30,

city: "New York"

};

const keys = Object.keys(person);

console.log("Object Keys:", keys); // ["name", "age", "city"]

// 5. Math.random()

const randomNum = Math.random();

console.log("Random Number:", randomNum); // A random number between 0 and 1

</script>

</head>

<body>

<h1>Check the console for JavaScript method examples</h1>

</body>

</html>