<!DOCTYPE html> <html lang="en">

<head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Variable Scope in JavaScript</title>

<script>

// Global Scope

var globalVar = "I am global";

function showGlobalVar() {

console.log("Global Scope:");

console.log(globalVar); // I am global

}

showGlobalVar();

console.log(globalVar); // I am global

// Function Scope

function showFunctionScope() {

var localVar = "I am local to this function";

console.log("\nFunction Scope:");

console.log(localVar); // I am local to this function

}

showFunctionScope();

// Uncommenting the next line will cause an error

// console.log(localVar); // Uncaught ReferenceError: localVar is not defined

// Block Scope

if (true) {

var blockVar1 = "I am a var variable inside a block";

let blockVar2 = "I am a let variable inside a block";

const blockVar3 = "I am a const variable inside a block";

console.log("\nBlock Scope (Inside Block):");

console.log(blockVar1); // I am a var variable inside a block

console.log(blockVar2); // I am a let variable inside a block

console.log(blockVar3); // I am a const variable inside a block

}

console.log("\nBlock Scope (Outside Block):");

console.log(blockVar1); // I am a var variable inside a block

// Uncommenting the next two lines will cause an error

// console.log(blockVar2); // Uncaught ReferenceError: blockVar2 is not defined

// console.log(blockVar3); // Uncaught ReferenceError: blockVar3 is not defined

</script>

</head>

<body>

<h1>Check the console for variable scope examples</h1>

</body>

</html>