Functions in JavaScript

Introduction to Functions

Functions are one of the fundamental building blocks in JavaScript. They allow you to encapsulate a block of code that can be executed and reused throughout your program.

Functions can accept input parameters and return values.

Defining Functions

You can define functions using the function keyword followed by the function name, a list of parameters enclosed in parentheses, and the function body enclosed in curly braces.

```
// Defining a function
function greet(name) {
return 'Hello, ' + name + '!';
}
```

Calling Functions

To call a function, simply use the function name followed by parentheses. You can pass arguments to the function within the parentheses.

```
// Calling a function
let message = greet('John');
console.log(message); // Output: Hello, John!
```

Function Parameters and Arguments

Functions can accept parameters, which are placeholders for values that the function expects to receive when it is called. Arguments are the actual values passed to the

function when it is called.

```
// Function with parameters
   function add(a, b) {
      return a + b;
      }
   let result = add(5, 3);
console.log(result); // Output: 8
```

Returning Values

Functions can return values using the return keyword. Once a function encounters a return statement, it immediately exits, and the value is returned to the caller.

```
// Function returning a value
  function multiply(a, b) {
                return a * b;
                }
  let product = multiply(4, 6);
console.log(product); // Output: 24
```

Anonymous Functions

JavaScript also supports anonymous functions, which are functions without a name. They are often used as arguments to other functions or assigned to variables.

```
// Anonymous function assigned to a variable
    let greet = function(name) {
        return 'Hello, ' + name + '!';
        };
console.log(greet('Jane')); // Output: Hello, Jane!
```

Understanding functions is crucial for writing modular and maintainable code in JavaScript. They enable code reuse and make your programs more organized and readable.

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