Javascript Functions & Strings

Javascript Functions

A function is a reusable block of code designed to perform a particular task. Functions help keep your code organized, maintainable, and modular.

Declaring a Function

1. Function Declaration

```
function greet(name) {
  return "Hello, " + name + "!";
}
```

2. Function Expression

```
const greet = function(name) {
  return "Hello, " + name + "!";
}
```

3. Arrow Function

```
const greet = (name) => "Hello, " + name + "!";
```

Javascript Functions

Calling a Function

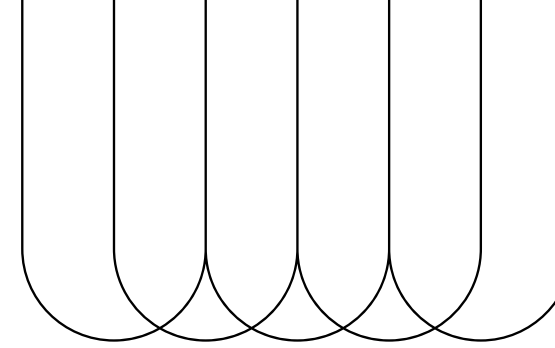To call a function we use parentheses with function name.

```
let greeting = greet("Alice");
```

Parameters vs Arguments

- **Parameters** are variables listed in the function definition.
- **Arguments** are the actual values passed to the function.

Return Statement

Functions can return values using the **return** keyword. If no **return** is used, the function returns **undefined** by default.

Javascript Strings

A string is a sequence of characters used to represent text. In JavaScript, strings are enclosed in single ('),
double ("), or backtick (`) quotes.

Creating Strings

```
let single = 'Hello';
let double = "World";
let backtick = `Hello, ${double}`;
```

length Property

Returns the length of the string.

```
let single = 'Hello';
console.log(single.length) //output: 5
```

Javascript Strings

Common Strings functions

- **toUpperCase(), toLowerCase()**

```
console.log("hello".toUpperCase());     // "HELLO"
```

- **charAt(index)**

```
console.log("JavaScript".charAt(0));     // "J"
```

- **includes(substring) :** Checks for substring in given string.

```
console.log("hello world".includes("world"));     // true
```

- **slice(start, end) :** Extract a portion of a string from start index to but **not included** end index.

```
console.log("JavaScript".slice(0, 4)); // "Java"
```

Javascript Strings

Common Strings functions

- **replace(searchValue, newValue)** Replace the search value with new Value.

```
console.log("Hello World".replace("World", "JavaScript"));    // "Hello JavaScript"
```

- **trim():** Removes white spaces from start & end of the string.

```
console.log("   Hello   ".trim());    // "Hello"
```

- **split(separator) :** Splits a string into an array of substrings based on a specified separator

```
let str = "apple,banana,cherry";
console.log(str.split(",")); // ["apple", "banana", "cherry"]
```

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THANK YOU

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