JAVASCRIPT MASTERY

1.Working with Strings in JavaScript

JavaScript provides various methods to manipulate and work with strings. Since strings are immutable, any modification results in a new string.

1.Slice()
- Extract a section of a string and returns a new string without modifying the original.
- Example:

```
let str = "Hello World";
console.log(str.slice(0, 5)); // Output: "Hello"
```

2.Template Strings
- Uses backticks(`) to allow embedding expressions within a string.
- Example:

```
let name = "John";
console.log(`Hello, ${name}!`); // Output: "Hello, John!
```

3.Split()
- Splits a string into an array based on a seperator.
- Example:

```
let words = "Hello World".split(" ");
console.log(words); // Output: ["Hello", "World"]
```

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4.Replace()

- Replaces a specified substring with another.
- Example:

```
let text = "Hello";
console.log(text.replace("H", "J")); // Output: "Jello"
```

5.includes()

- Checks if a substring exists within a string.
- Example:

```
console.log("JavaScript".includes("Java")); // Output: true
```

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2.Conditional Operators in JavaScript

1.if statement

- Excutes code if a condition is true.
- Example:

```js
let x = 10;
if (x > 5) {
  console.log("Big number");
}
```

2.if-else statement

- Runs different code blocks based on a condition.
- Example:

```js
let num = 4;
if (num > 5) {
  console.log("Greater than 5");
} else {
  console.log("Less than or equal to 5");
}
```

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2.Conditional Operators in JavaScript

3.else-if ladder

- Used for multiple conditions.
- Example:

```
let score = 85;
if (score >= 90) {
  console.log("A grade");
} else if (score >= 80) {
  console.log("B grade");
} else {
  console.log("Below B grade");
}
```

4.Ternary Operator

- Shorter way to write an if-else statement.
- Example:

```
let age = 18;
let status = age >= 18 ? "Adult" : "Minor";
console.log(status); // Output: "Adult"
```

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2.Conditional Operators in JavaScript

5.Switch statement
- Alternative to multiple if-else conditions.
- Example:

```javascript
let day = "Monday";
switch (day) {
  case "Monday":
    console.log("Start of the week");
    break;
  case "Friday":
    console.log("Weekend is coming!");
    break;
  default:
    console.log("Normal day");
}
```