**ReGEX**

Regular expressions (regex) in JavaScript are patterns used to match character combinations in strings. Here’s a simple explanation along with the syntax:

1. What is Regex?

- Regex is a sequence of characters that forms a search pattern. It s like a super-powered find-and-replace tool for text.

2. Syntax:

- /pattern/flags

- The pattern is the regex itself, enclosed between forward slashes (`/`). It s what you re searching for.

- Flags are optional and modify how the pattern is matched. Some common flags are `g` (global match), `i` (case-insensitive), `m` (multiline), etc.

3. Examples:

- /hello/ matches "hello" in a string.

- /[0-9]+/ matches one or more digits in a string.

- /^start/ matches "start" only at the beginning of a string (`^` is an anchor for start).

- /end$/ matches "end" only at the end of a string (`$` is an anchor for end).

4. Using Regex in JavaScript:

- JavaScript provides a `RegExp` object to work with regex. You can create a regex pattern using `new RegExp( pattern , flags )` or simply use regex literals like `/pattern/`.

5. Example Usage:

const str = 'Hello World';

const pattern = /hello/i; // Case-insensitive match for "hello"

const result = pattern.test(str); // Checks if the pattern matches the string

console.log(result); // Output: true

In essence, regex in JavaScript is a powerful tool for string manipulation and searching based on specific patterns.