

What is javascript?

Javascript is programming / scripting lang...
that makes web pages dynamic and
interactive

- HTML ⇒ for structure of page
- CSS ⇒ for styling
- JS ⇒ for interaction, action, animation

Example

- Clicking a button to show message
- form field validation before submitting

without JS → websites are static
just image / texts

With JS → websites are dynamic &
interactive

Javascript can change value of html element using the id of element

Where does JavaScript run?

In the browser:

All modern browser (Chrome, Firefox, Edge, Safari) have a built-in JavaScript engine.

In Developer Tools Console:

In console you can type JS code and see results.

On the Server:

With Node.js, Javascript can run outside the browser to build server & backend apps

What is Console?

A developer tool in browsers.

It is like a play ground where you can test JS code.

Uses:

Write code quickly

Debugging

Print values

What does console.log() do?

console.log() is a built-in function in javascript.

It print values in console.

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

Hello

Example 1

```
console.log(10 * 5);
```

Result: 50

Example 2

```
console.log(21 % 2);
```

Result: 1

Example 3

```
console.log("JS is fun!");
```

Result: JS is fun!

Example 4

```
console.log(10 > 5);
```

Result: true

Example 5

```
console.log("My age is " + 23);
```

Result: My age is 23.

Difference b/w $5+5$ & " $5+5$ "

`console.log(5+5)`

⇒ A mathematical function of addition which return or result in 10

`console.log("5+5")`

⇒ A string which simply shows same value ⇒ 5+5 on console