**Practical Work №13 − «Adding interactivity to HTML documents with JavaScript»**

JavaScript is a high-level programming language used for making websites interactive. It was created in 1995 and was designed to be easy to learn and add dynamic functionality to web pages. Originally named Mocha, it was later renamed to JavaScript to capitalize on the popularity of Java.

JavaScript is widely used for building front-end web applications because it is the one of the few languages which browsers natively support. It also powers server-side applications with Node.js, mobile apps with React Native or Ionic, and desktop apps with Electron.

JavaScript runs either as an interpreted language or with just-in-time compilation, which converts it to machine code as it runs. It handles multiple tasks efficiently using a non-blocking event loop, allowing it to perform tasks in the background without slowing down the main thread.

JavaScript can manipulate HTML elements, like buttons, by selecting them and adding event listeners to make them interactive. You can define functions using the function keyword or arrow functions for a more concise syntax.

JavaScript supports both functional programming, with first-class functions, and object-oriented programming, with classes and inheritance. It handles asynchronous tasks with Promises and async/await, making it suitable for operations like fetching data from a server.

Overall, JavaScript is a versatile and powerful language that continues to evolve, making it a cornerstone of modern web development.

The video - [youtube.com/watch?v=DHjqpvDnNGE&ab\_channel=Fireship](https://www.youtube.com/watch?v=DHjqpvDnNGE&ab_channel=Fireship)

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