**Report @Devuni Sathish**

**Task Details**

**Project Name:** Introduction to Web Standards and JavaScript Concepts and Fundamentals.

**Task Name:** Introduction to JavaScript and its Core Principles.

**Website Host Details**

**Website Hosted link (Hosted On GitHub):**  [**https://devunisathish.github.io/WEBPAGE-USING-JS/**](https://devunisathish.github.io/WEBPAGE-USING-JS/)

**GitHub link for code:**  [**https://github.com/devunisathish/WEBPAGE-USING-JS.git**](https://github.com/devunisathish/WEBPAGE-USING-JS.git)

**Report About JavaScript**

**Explaining the core principles of JavaScript and how they are used to create interactive web pages.**

JavaScript is a powerful programming language that is widely used to create interactive web pages. JavaScript is based on a set of core principles that govern how the language works and how it can be used to create dynamic and interactive web pages. In this report, we will discuss the core principles of JavaScript and how they are used to create interactive web pages.

1. Variables and Data Types: JavaScript allows developers to declare variables and assign values to them. Variables can hold different types of data such as strings, numbers, and boolean values. These variables and data types are essential for storing and manipulating information on a web page.
2. Functions: Functions are blocks of code that can be called to perform specific tasks. JavaScript functions can be used to manipulate web page elements, respond to user input, and perform calculations.
3. Control Flow: JavaScript uses control flow statements such as if-else statements and loops to control the flow of execution of the code. These control flow statements allow developers to make decisions based on user input or other factors and execute specific code based on those decisions.
4. Events: JavaScript allows developers to create event-driven web pages. Events are actions that a user performs on a web page such as clicking a button or scrolling. JavaScript code can be written to respond to these events and perform specific actions when they occur.
5. Objects and Classes: JavaScript allows developers to create objects and classes to represent data and functionality on a web page. Objects can contain properties and methods, while classes provide a blueprint for creating objects with specific properties and methods.
6. DOM Manipulation: The Document Object Model (DOM) is a programming interface for HTML and XML documents. JavaScript can be used to manipulate the DOM and change the content and appearance of a web page dynamically.

These core principles of JavaScript are used to create interactive web pages by allowing developers to write code that responds to user input, manipulates web page elements, and performs calculations and other tasks. By leveraging these core principles, developers can create web pages that are dynamic, engaging, and responsive to user actions.

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