Notes - JavaScript Zero to Hero in 5 Days

Basics of JavaScript

Introduction

▸ History of JavaScript

▸ Program, Programming and Programmer

▸ How Does JavaScript Work on the Web?

▸ Setting Up the Coding Environment

▸ How do Browsers Execute JavaScript?

▸ Where to write JavaScript?

Logging into Browser

▸ console.log & clear Functions

▸ alert

▸ prompt()

Variables and Data Types

▸ Literals and Variables

▸ Variable Declaration and Initialization

▸ Manipulating Variables

Operators

▸ Arithmetic

▸ Relational

▸ Equality

▸ Logical

▸ Assignment

▸ Precedence and Associativity

Data Types

▸ Strings

▸ String functions

▸ Type Coercion

▸ Conversion Between String and Number Type

▸ Boolean

▸ Null

▸ Undefined

Conditionals

▸ Truthy and Falsy

▸ if, if...else and and if-else-if

▸ Ternary Operator

▸ Nested if...else

▸ switch...case

Loops

▸ while loop

▸ do while loop

▸ for loop

▸ break and continue

Arrays

▸ Understanding Arrays

Objects

▸ Understanding Objects

▸ Accessing keys

▸ for...in loop

▸ Properties and Methods

Functions

▸ Understanding Functions

▸ Declaring and defining function

▸ anonymous functions

▸ methods

▸ Higher Order Functions

Advanced JavaScript

ES6

▸ What is ECMAScript?

▸ Pass by Value & Pass by Reference

▸ Scope, Lifetime and Lexical Scope

▸ Using 'let' and 'const'

Classes

▸ Understanding classes

▸ constructor & this keyword

▸ inheritance in classes - extends

DOM

▸ Introduction to DOM

▸ Injecting JS in Website

▸ Document Object

▸ Difference between tag selector and query selector

▸ **Difference between textContent and innerText**

▸ **Manipulating DOM**

Events and Event Handling

▸ **What are events in JavaScript?**

▸ **Event Flow: Event Capturing & Event Bubbling**

▸ **Handing Events : event listeners**

Forms

▸ **Taking user inputs via forms**

▸ **Client side form validation using Js**