INFOSOFT IT SOLUTIONS

Training | Projects | Placements

Revathi Apartments, Ameerpet, 1st Floor, Opposite Annapurna Block, Info

soft it solutions Software Training& Development 905968394,918254087

JAVA SCRIPT

Introduction to JavaScript

Introduction

- o What is JavaScript?
- o History and evolution of JavaScript.

Setting Up Environment

- o Text editors (e.g., VSCode, Sublime Text).
- o Browser developer tools

Basic Syntax

- o Variables and data types.
- o Operators and expressions.
- o Comments.

Control Flow and Functions

Control Flow

- o Conditional statements (if-else, switch).
- o Loops (for, while, do-while).
- o Handling exceptions (try-catch).

Functions

- o Function declaration and invocation.
- o Parameters and return values.
- o Scope and closures
- o
- o .

Data Structures and Objects

1. **Arrays**
   - o Creating arrays.
   - o Accessing and modifying elements.
   - o Array methods (e.g., map, filter, reduce).
2. **Objects**
   - o Creating objects.
   - o Accessing object properties.
   - o Object methods and prototypes.

DOM Manipulation and Events

1. **DOM Manipulation**
   - o Understanding the Document Object Model (DOM).
   - o Selecting elements.
   - o Modifying elements (inner HTML, style).

2. **Events**
   - o Event handling.
   - o Event types (click, keypress, submit).
   - o Event propagation and delegation.

<u>**Asynchronous JavaScript**</u>

1. **Introduction to Asynchronicity**
   - ○ Callback functions.
   - ○ Promises and async/await.
2. **Working with APIs**
   - ○ Fetch API for making HTTP requests.
   - ○ Handling JSON data.

<u>**ES6+ Features**</u>

Modern JavaScript Features

- ○ let and const.
- ○ Arrow functions.
- ○ Template literals.
- ○ Destructuring assignments.
- ○ Spread and rest operators.

Modules

- ○ Import and export syntax.
- ○ Using modules in browsers.

<u>**Advanced Topics (Optional)**</u>

Object-Oriented JavaScript

- ○ Constructors and prototypes.
- ○ Classes (ES6).

Error Handling and Debugging

- ○ Common errors and debugging techniques.

Browser Storage

- o Local Storage and Session Storage.
- o

JavaScript Frameworks (Optional)

Introduction to Frameworks

- o Overview of popular frameworks (e.g., React, Angular, Vue).
- o

Building a Simple Application

- o Basic concepts of chosen framework.
- o Creating components and managing state.