

## Java Script

1. Introduction to client side scripting
2. Syntax Basics
  - a. JS Statements
  - b. JS Comments
  - c. JS Variables
  - d. JS Datatypes
3. JS Operators
4. JS Comparisons
5. JS Conditional Statements
6. JS Loops
7. JS Events
8. JS Objects
  - a. String Functions (Most Used)
  - b. JS Math Functions (Most Used)
  - c. JS Date Functions (Most Used)
  - d. JS Array Functions and Property (Most Used)
9. JS User Defined Functions
10. JavaScript Implementations
  - a. Implementing a Simple Calculator Using JavaScript
  - b. JS Validations using Object Functions
  - c. S Validations using Regular Expressions
11. JS Document Object Model
  - a. Introduction
  - b. DOM HTML
  - c. DOM CSS
  - d. DOM Events
12. JS Browser Object Model
  - a. JS Cookies
  - b. JS Window
  - c. JS Location
  - d. JS Popups
  - e. JS Time

## AJAX (Pre-Requisite: ServerEnd Technology)

1. Introduction
2. XMLHttpRequest Object
3. Creating a request object
4. Sending a request to server
5. Receiving a response from the server
6. readyState and Status of a request

## JavaScript fundamentals

Scope & Function Context

Closures

this keyword

Object-Oriented in JavaScript

Async and Parallel in JavaScript

JavaScript Design Pattern