



GeeksforGeeks

# Advance Java Script



Detailed  
Course Syllabus

## JS FOUNDATIONS

- Javascript runtime environment
- Execution Context-1
- Execution Context-2
- Execution Context-3
- Hoisting - 1
- Hoisting - 2
- Hoisting - 3
- Hoisting - 4
- Hoisting - 5
- Understanding Scope and Scope chain
- Scope and Scope chain - Example
- Hoisting and Scopes Exercise -1
- Hoisting and Scopes Exercise -2
- Hoisting and Scopes Exercise -3

## JS FOUNDATIONS - 2

- Interpreted vs Compiled (JIT)
- JS Type Comparisons
- Overview of V8 Engine

## FUNCTIONS

- Introduction to Functions
- First Class Citizens
- Call Method -1
- Call Method -2
- Apply Method -1
- Apply Method -2
- Bind Method -1
- Bind Method -2
- CallApplyBind Exercise -1
- CallApplyBind Exercise -2
- Closures-1
- Closures-2
- Closures-3
- Closures-4
- Closures-5



## OBJECTS

- [this keyword -1](#)
- [this keyword -2](#)
- [this keyword -3](#)
- [this keyword -4](#)
- [this keyword -5](#)
- [this-exercise-1](#)
- [this-exercise-2](#)
- [this-exercise-3](#)
- [constructor functions-1](#)
- [constructor functions-2](#)
- [constructor functions-3](#)
- [prototypal inheritance-1](#)
- [prototypal inheritance-2](#)
- [prototypal inheritance-3](#)
- [prototypal inheritance-4](#)
- [prototypal inheritance-5](#)
- [prototypal inheritance-6](#)
- [prototypal inheritance-7](#)

## OOP AND FP

- [OOPS-1](#)
- [OOPS-2](#)
- [OOPS-3](#)
- [OOPS-4](#)
- [OOPS-5](#)
- [FP-1](#)
- [FP-2](#)
- [OOPS VS FP](#)

## ASYNCHRONOUS JAVASCRIPT

- [JS runtime recap](#)
- [Event Loop Architecture](#)
- [Microtask queue](#)
- [Promise-1](#)
- [Promise-2](#)
- [Async Await](#)

## WRITING POLLYFILLS

- [map-polyfill](#)
- [filter polyfill](#)
- [reduce polyfill](#)
- [forEach polyfill](#)
- [bind polyfill](#)
- [memoized-function implementation](#)
- [Promise.all polyfill](#)
- [flatten array to 1D implementation](#)
- [subscribe array implementation](#)

## JS INTERVIEW PROBLEMS

- [Interview Problems \(Set-1\)](#)
- [Interview Problems \(Set-2\)](#)
- [Interview Problems \(Set-3\)](#)
- [Interview Problems \(Set-4\)](#)
- [Interview Problems \(Set-5\)](#)