

Javascript Level 1

What is javascript ?

How to include javascript in html file.

Data types in javascript.-- [including how to make objects]

operators in javascript.

operator associativity rules in javascript

Scope of var , let const variables --- difference between these three kinds of declarations

Deep copy and shallow copy

Freeze method for making variables immutable

Statements that control the flow of the program.

Truthy and falsy values

Applying various Looping statements in javascript for executing statements in repeating manner

Using break and continue statements in javascript looping statements.

Applying loop on the array , strings , array of objects

How to write a function using function keyword. --- return statement of the function.

Built in methods for strings

Built in methods for objects

Built in methods for arrays

try catch block for error handling through interactive js dialog box

Javascript Level 2

Function notations in javascript.

Higher Order functions

this keyword. Difference between the value of this keyword in various function notations.

Callback functions introduction using setTimeout , setInterval() function. --- demonstration of asynchronous behaviour

Difference between higher order functions and callback functions

HTML template literals

DOM manipulation functions which are callback functions.

Pseudo experience of api call using the callback function ; loading spinner , template literals and DOM manipulation

What is callback hell ?

Promise objects in javascript

Async await statements in javascript

Demonstration of HTTP methods using JSON server and promises , async / await.

Calling api using async / await , promises

spread operator and rest parameter by comparing them with looping statements.

Hoisting by comparing javascript with c programming language

TDZ --- Temporal dead zone

Using the browser's debugging tool.

Event Loop

Javascript Level 3

Prototype based oop in javascript

class keyword based oop in javascript

Strict mode in javascript

import and export statements

Throttling

Dates in javascript

Regular Expressions

call() , apply() and bind() methods in javascript

closures --- How function closures imitate object oriented programming

BOM --- [Browser object model]

sessionStorage , localStorage using javascript