ACCIOJOBS F2 MODULE (March 2023)

[GITHUB REPO LINK](https://github.com/Anshu-rai89/march-f2-session)

[CLASS NOTES](https://excalidraw.com/#json=hO01kO8dJcCqRa51OlQy-,ytYTAs_5_WpfG5Z4jto2uA)

Resources Interview Question -> <https://github.com/lydiahallie/javascript-questions>

Practise Quaestions ->

Lesson Plan

# Class 1. JS fundamentals 1

* Introduction to Javascript
* Ways of linking/executing js code
* Prompt, console and alert() functions
* Node.js Dev environment
* Values, variables and data types
* Operators
* Arithmetic
* Logical
* Relational
* Conditionals
* If else
* Switch case

# Class 2. Js Fundamentals - 2

* Type conversion and coercion
* Loops in JS
* Introduction to JS functions and their syntax.
* Introduction to arrays in Js
* Introduction to objects in js

# Class 3. Intro to Arrays and Objects (IMP )

* Commonly used methods on Arrays
* Introduction to higher order functions
* Object declaration
* Accessing properties of objects
* Object methods and their use case

# Class 4. Intro to DOM: Document Object Model (V IMP)

* Introduction to Dom
* Dom tree and traversal
* Reading DOM elements
* Dom methods
* Manipulating/Accessing the page content
* innerText, innerContent and innerHTML
* Dynamically creating content to the page
* Add or remove elements from page

# Class 5. DOM methods and Events

* Accessing and Altering attributes of elements
* Reading/Altering styles
* Events and EventListeners

# Class 6.Deep dive into Functions (IMP) [Notes](https://excalidraw.com/#room=36f0e614d7b86c1990a2,UYL4UpddLFxtaULJL4Pz3w)

* Different types of functions
* Function hoisting
* Spread operator
* Intro to function hoisting
* IIFE(immediately invoked function expressions)
* Try catch and finally

# Class 7. Deep dive into arrays

* Array Destructuring and Spread operator
* Iterators on arrays
* Higher order functions
* Map, filter and reduce
* Sort, forEach, find etc

# Class 8.Strings in JS

* Strings basics and templating
* Important string methods
* RegEx introduction
* String comparisons

# Class 9. Debugging & JS Execution (IMP)

* Debugging JS
* Usage of debugger, console statements and break points
* Stack overflow and MDN docs
* JS engine and runtime
* Execution context and call Stack
* Global execution context
* Functional execution context
* Call Stack

# Class 10. Closures, Hoisting & TDZ

* Closures
* Scope and Scope chaining
* Variable Environment
* Hoisting in detail
* Temporal Dead Zone

# Class 11. Deep Dive into Objects [IMP] [Class Notes](https://excalidraw.com/#room=ce1f4039defa87eedd3b,wdC09uLuin9PPz8mRKIRKg)

* Destructuring Objects
* Objects properties and methods
* Constructor functions and Iterables
* This keyword

# Class 12. JSON & methods

* JSON introduction
* Important json methods
* JSON.parse()
* JSON.stringify()
* Other functions etc

# Class 13. BigInt, Symbol And Dates

* BigInt data types
* Symbol data type
* Working with Dates in JS

# Class 14. Important ES6 methods [Class Notes](https://excalidraw.com/#room=aaee86e04640f6612b0c,if8Tr_i5YfcxUutEKrBczg)

* call , bind and apply methods
* Object copying/cloning

# Class 15. OOPs in JS

* Important oops concepts of OOPs in JS
* constructor function
* New operator
* Prototypes
* Prototypal inheritance
* Prototypal chain
* Prototypal inheritance on built - in objects