# Topics that we have covered:

**PART 1**

* Installation of vs code and node js
* Alerts
* Console.log
* Document.write
* Variables
* Data Types
* Primitives

1. Number
2. String
3. Boolean
4. Null
5. Undefined
6. Symbol

* Complex Types

1. Objects
2. Function

* Typeof Operator
* Statements
* Expressions
* Comments
* Single line
* Multi line
* Reserved Keywords
* Variable Names
* Case Sensitive
* Camel Case
* Operators
* Arithmetic Operators
* Arithmetic Operators
* Comparison Operator
* Increment and Decrement Operator
* Logical Operators
* Operator Precedence
* String Concatenation
* Prompt
* Parsing String
* string to integer
* string to decimal
* string to number
* Conditions
* Else
* Else if
* If
* Nested if
* Switch
* Value Conversion to Boolean
* Number to Boolean
* Null to Boolean
* String to Boolean
* Undefined to Boolean
* Loops
* For loop
* Infinite loop
* Nested loop
* While loop
* Do while loop
* Break and Continue Keyword
* Arrays
* Creating Array
* Accessing Array Elements
* Accessing Full Array
* Add/Update Array Element
* Length Property
* Array Function

1. Splice
2. Slice
3. Indexof

* Array Data Structure

1. Random access
2. Stack

* Push function
* Pop function

1. Queue

* Shift function
* Unshift Function
* String
* Escape Character
* String Functions
* toLowerCase()
* toUpperCase()
* slice()
* indexOf()
* lastIndexOf()
* charAt()
* replace()
* split()
* Math Function
* Math.round()
* Math.ceil()
* Math.floor()
* Math.random()
* ToFixed()
* Math.pow()
* Math.sqrt()
* Math.abs()
* Math.sin()
* Math.cos()
* Math.min()
* Math.max()
* Math.exp()
* Math.log()
* Date Objects
* Creating Dates
* Retrieving Date Components
* Modifying Date
* Converting day to text
* Calculate time difference
* Functions
* Function declaration
* Anonymous Functions
* Invoking a function
* Parameters vs Arguments
* Parameter Rules
* Function Return
* Function in Expressions
* Local vs global variable
* Global variable without var keyword
* Function Hoisting
* Arguments passed by value
* Arguments passed by Reference
* Recursive Functions

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**Part 2 (Advance JS)**

* Template literals
* Scope in Block statements
* Lexical Scope
* Let and Const keyword
* Hoisting
* DOM
* Traversing DOM
* Previous and next sibling
* First and last child
* Get/Update DOM element
* Access and Update text node with node value
* Access and Update text content & inner text
* Accessing text only
* Access and update text and markup with inner html
* Adding/removing elements using Dom
* Adding or removing html content
* Attribute's nodes

1. Creating attributes and changing their value

2. Removing attributes

* Examining DOM in browser
* Selecting Element

1. using id
2. using classes
3. using query selector
4. Using tag name
   * Events
   * Onclick
   * Double click
   * Mouse enters
   * Mouse leave
   * Mouse move

**Projects Covered :**

1. Change Color on Click
2. Change Image on Click
3. Word Length Calculator
4. Simple Counter
5. Random Quote Generator
6. Number Guessing Game
7. Show Day of the Week
8. Height Converter
9. Weight Converter
10. BMI Calculator
11. TIP Calculator
12. Image Slider
13. Change CSS with JavaScript
14. To Do List (Four Kinds of dif. to do lists)