**Day 3: 30-06-2025**

DOM Operation : document object provided lot of pre defined function which help to read, write and update html or dom contents dynamically.

DOM parser : Lot of programming language like Java, Python, C#, JS provided lot of pre defined function which help to read, write and update html or dom contents dynamically.

**index.html**

Html root tag

Head body

Meta div

Title p

Style p contents

Script div

**document.getXXX**

create simple online calculator app

1st Number TextField 100 500

2nd Number TextFiled 300 200

Result TextFiled 400 300

Add Sub

External JS File : we can do re-usability of same JS code in more than one web page.

DOM Operation to create new tags dynamically and adding the content to those tags.

**JavaScript ES6 features**

1. From ES6 onward we can declare the variable using let and const keyword.

Using var we can re-declare same value once again. But using let can’t

var a=10; // declaration with initialization

a=20; // re-assign the value

var a=30; // re-declare same variable once again with same or different value.

let b=10;

b=20;

let b=30; Error

var is use to declare function scope or global scope. Using let we can use block scope.

for(var i=0;i<10000;i++) {

}

document.write(“i value is “+i);

for(let j=0;j<10000;j++) {

}

document.write(“j value is “+j); error

const k=1000;

k=2000; error equal to final in java

JavaScript hosting : Normal function support JS hosting. But Expression style doesn’t support.

1. Normal style function ES5
2. Express style function ES5
3. Arrow style function : arrow style function is use to write shortest form of the function or arrow function is a more concise way to write the function in ES6 JavaScript using => ES6
4. Callback function : passing the function name or function body or function itself to another function as a parameter is known as callback function.

**Reference data types or basic JavaScript Object**

**array :** array is known as reference data types which help to store more than one value of different types. It provided lot of pre defined methods (few method part of ES5 and few method par to ES6) which help to do some operation like add, remove, search, iterate. In JS array is known as dynamic in memory size.

Syntax to create the array object

let num1=[1,2,3,4,5,6]; literal style array object creation

or

let num2 = new Array(1,2,3,4,5,6) creating memory using new keyword.