

content elements consist of an opening tag, content using tag. They can nest other elements within them, forming a hierarchical structure.

We all HTML tags with e.g.
mainly! Here's a list of HTML tags with brief



Experiment No : - 5

Aim - Implement basic Operations using javascript.

Theory -

1) What is script?

A program or sequence of instructions that is interpreted or carried out by another program. A program embedded in an HTML document. A scripting language is a lightweight programming language.

Syntax -

```
<script type = "text/javascript">  
|  
</script>
```

2) Difference between client side and server side scripting

client side scripting	server side scripting
1) Used when the user's browser already has all the code.	Used to create dynamic pages.
2) The web browser executes the client side scripting.	The web server executes the server side scripting.
3) Cannot be used to connect to the databases on the web server.	Used to connect to the databases that reside on the web server.
4) Can't access the file system.	Can access the file system.

HTML tags with e.g.
HTML tags with brief
description about the HTML



that resides at the web server	residing at the web server
s) Response from a client-side script is faster as compared to a server-side script.	Response from a server-side script is slower as compared to a client-side script.
3) Explain data types in javascript with definition	
In programming, data types is an important concept. To be able to operate on variables, it is important to know something about the type. following they are datatypes.	
i) strings - A string or a text string is a series of characters like "Johnson". e.g - let lastName = "Johnson"	
ii) Numbers - All javascript numbers are stored as decimal numbers (floating point) e.g - let x ₁ = 34.00 let x ₂ = 34	
iii) Booleans - Booleans can only have two values true or false. e.g - let x = true let y = false	
iv) Exponential Notation - Extra large or extra small numbers can be written with scientific (exponential) notation e.g - let y = 123e5	
iv) BigInt - All javascript numbers are stored in a 64-bit floating-point format. Javascript BigInt is a new datatype	



int consist of an opening tag, can nest other elements within them
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tags with e.g. HTML tags with brief



(ES2020) that can be used to store integer values that are too big be represented by a normal Javascript Number.

e.g. → let x = BigInt("12345678901234567890123456789");

v) Array object - Javascript always written with square brackets and items seperated by commas

e.g. → const cars = ["Saab", "Volvo", "BMW"];

vi) Objects - Javascript objects are written with curly brackets '{ }' and name:value pairs, seperated by commas.

e.g. → const person = { firstName: "John", lastName: "Doe" };

vii) Date object - Display in current date.

e.g. → const date = new Date("2022-03-25");

4) Explain arithmetic operators

Arithmetic operators perform arithmetic on numbers

Operator	Description	Example
+	Addition	let x = 100 + 50;
-	Subtraction	let z = x - y;
*	Multiplication	let z = x * y;
**	Exponentiation	let z = x ** 2;
/	Division	let z = x / y;
%	Modulus (remainder)	let z = x % y;
++	Increment	x ++
--	Decrement	x --

5) Explain function, object, string & array



g. They can nest other elements
Hierarchical structure
HTML tags with e.g.
! Here's a list of HTML tags with brief
info about the HTML



1) Function -

A javascript function is a block of code designed to perform a particular task. A Javascript function is executed when something calls it.

Syntax - function name(para1, para2, para3)
{

} // code to be executed

2) Objects -

In Javascript almost everything is an object. They are Booleans, Numbers, Strings, dates, maths, Regular expressions, arrays, functions, objects etc.

e.g - let person = "John Doe";

In written name:value pairs and separated by commas
e.g - const person = { firstName: "John" };

3) String -

A string or a text string is a series of characters like "Johnson"

e.g - let lastName = "Johnson"

4) Array -

Javascript always written with square brackets and items separated by commas

e.g - const cars = ["saab", "volvo", "bmw"];

5) Explain conditional statements

In javascript we have the following conditional statements -



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enhance the presentation

- of an opening tag, content
other elements with in them
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1) if statement

Use the if statement to specify a block of javascript code to be executed if a condition is true.

Syntax - if(condition){

 // block of code to be executed if condition is true
}

2) else statement

Use the else statement to specify a block of code to be executed if the condition is false.

Syntax - if(condition){

 // block of code to be executed if condition is true
 }

else {

 // block of code to be executed if condition is false
}

3) else if statement

Use the else if statement to specify a new condition if the first condition is false

Syntax - if(condition1){

 // block of code to be executed if condition1 is true
 }

else if(condition2){

 // block of code to be executed if the condition1 is
 // false & condition2 is true.

 }

else {

 // block of code to be executed if the conditions
 // is false and condition2 is false

}

4) switch statement

Use the switch statement to select one of many code

er elements consist of an opening tag, contain tag. They can nest other elements within them hierarchical structure.

HTML tags with eg
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the root element of an HTML document.
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blocks to be executed.

Syntax - switch(expression)

```
{  
    case x:  
        // code block  
        break;  
    case y:  
        // code block  
        break;  
    default:  
        // code block  
}
```

- 1) The switch expression is evaluated once
- 2) The value of the expression is compared with the values of each case.
- 3) If there is a match, the associated block of code is executed.
- 4) If there is no match, the default code block is executed.

Conclusion -

In this practice, we are using javascript as programming code that can be inserted into HTML pages and implement basic operations in using javascript.

