

## JavaScript

### 1) HTML (HyperText Markup Language)

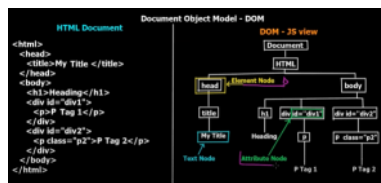
>> Adds structure to our web pages.  
>> Tags used for e.g. <div>, <section>, <p>

### 2) CSS (Cascading Style Sheets)

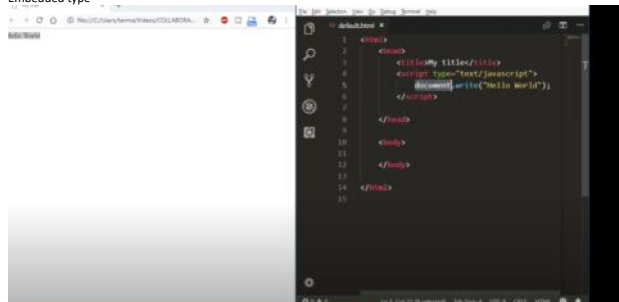
>> Adds **styles** to our webpages.  
>> E.g. **colors**, **border**, **margin**, **image**, **positions** etc.  
>> Can use **ids**, **classes** or **direct tags** to reference HTML tags

### 3) JS (JavaScript)

>> Adds programming to our web pages.  
>> Adds functionality, e.g. **client side validation**, **effects & events** etc.



## Embedded type



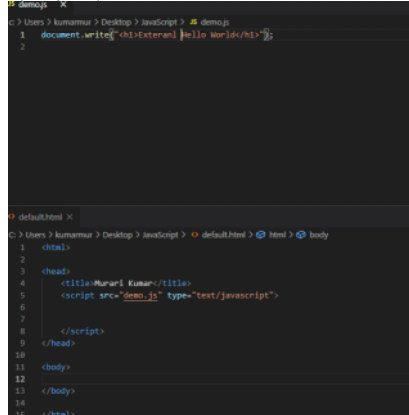
Document.write("Hello world")

document.write("<h1>Hello World</h1>");

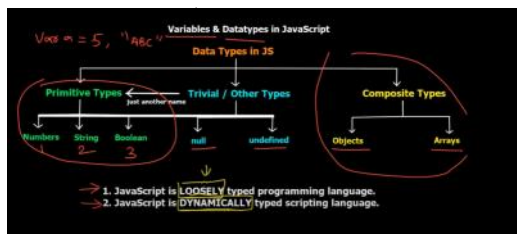
It represent entire document module in dom

Write is method which is directly writes on browser

## Separate javascript file



This is statement and instruction to print hello world on screen



```

<script type="text/javascript">

// int x = 5;

// JS is LOOSELY typed.
// JS is DYNAMICALLY TYPED

var num = 16; // Number
var Name = "Tanmay Sakpal"; // String
var flag = true; // boolean

document.write(num); // printing on the browser
</script>
</head>

```

```

// JS Dynamically types I

var num = 16; // Number
var Name = "Tanmay Sakpal"; // String
var flag = false; // boolean
num = "Tanmay";

```

```

// Booleans can be objects (if defined with the new keyword)
// Numbers can be objects (if defined with the new keyword)
// Strings can be objects (if defined with the new keyword)
// Dates are always objects
// Maths are always objects
// Regular expressions are always objects
//
var str1 = new String();

var Car = {
  car_brand: "Tesla",
  car_model: "Model 3",
  price: 35000,
  teslaAutoPilot: function() {
    document.write("<h2>This car has Auto pilot</h2>");
  }
}
document.write(typeof(str1));
//Car.teslaAutoPilot();

```

```

var Car = {
  car_brand: "Tesla",
  car_model: "Model 3",
  price: 35000,
  teslaAutoPilot: function() {
    document.write("<h2>This car has Auto pilot</h2>");
  }
}
// 100 lines of code

Car.fuelType = "Electric";

```

If we want to add mor property of car

```

var Car = {
  car_brand: "Tesla",
  car_model: "Model 3",
  price: 35000,
  teslaAutoPilot: function() {
    document.write("<h2>This car has Auto pilot</h2>");
  }
}
// 100 lines of code

Car.fuelType = "Electric";

Car.newFn = function() {
  document.write("<h2>Added function</h2>");
}

```

Adding metho

```

var Car = {
  car_brand: "Tesla",
  car_model: "Model 3",
  price: 35000,
  teslaAutoPilot: function() {
    document.write("<h2>This car has Auto pilot</h2>");
  }
}
// 100 lines of code

Car.fuelType = "Electric";
delete Car.price;

document.write("<h2>Car price</h2>");
//Car.teslaAutoPilot();

```

Delete property

Button clicked action

```

<html>
<head>
<title>Murari Kumar</title>
<script type="text/javascript">

function buttonclick()
{
    alert("Button Clicked");
}

</script>
</head>

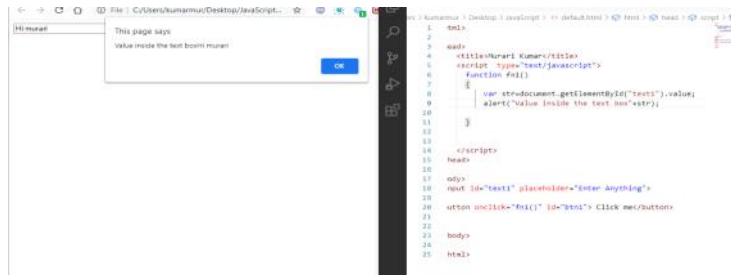
<body>
<button onclick="buttonclick()">Click me</button>
<h1 id="first">Can you please click on button</h1>
</body>

</html>

```



Input and give alert box



Username & password

```

<html>
<head>
<title>Murari Kumar</title>
<script type="text/javascript">
function fn1()
{
    var user=document.getElementById("user").value;
    pass=document.getElementById("password").value;
    if(user=="Murari" && pass=="1234")
    {
        alert("Hi succesfull login "+ user);
    }
    else{
        alert("wrong credtial");
    }
}
</script>
</head>
<body>
<input id="user" placeholder="Enter Username">
<br>
<input type="password" id="password" placeholder="Password">
<br>
</body>
</html>

```

```

<html>
<head>
<title>Murari Kumar</title>
<script type="text/javascript">
function fn1()
{
    var user=document.getElementById("rd1").value;
    pass=document.getElementById("rd2").value;
    if(user.checked==true)
    {
        alert("Hi succesfull login "+ user);
    }
    else{
        alert("wrong credtial "+ pass);
    }
}
</script>
</head>
<body>
<input id="rd1" name="grp1" type="radio" value="Simple Snippets">
Simple Snippets</input>
<br>
<input id="rd2" name="grp1" type="radio" value="Murari Learning">
Murari Learning</input>
</body>
</html>

```

Radio group name for both then we can select any one  
Other wise we both will be selected if we give different name

```

<html>
<head>
<title>Murari Kumar</title>
<script type="text/javascript">
/*DOM manipulation & getElementById method*/
function fn1()
{
    var rd1 = document.getElementById("rd1");
    var rd2 = document.getElementById("rd2");
    if(rd1.checked==true)
    {
        alert("The channel selected is: "+rd1.value);
    }
    else if(rd2.checked==true)
    {
        alert("The channel selected is: "+rd2.value);
    }
    else
    {
        alert("No channel selected");
    }
}
</script>
</head>
<body>
<input id="rd1" name="grp1" type="radio" value="Simple Snippets">Simple Snippets</input>
<br>
<input id="rd2" name="grp1" type="radio" value="Telusko Learnings">Telusko Learnings</input>
<br>
<button onclick="fn1()" id="btn1">Click me</button>
</body>
</html>

```

```

1 <html>
2
3 <head>
4 <title>Murari Kumar</title>
5 <script type="text/javascript">
6 function fn1()
7 {
8     var r1=document.getElementById("select");
9     alert("Pop up "+r1.value);
10 }
11
12 </script>
13 </head>
14
15 <body>
16 <select id="select">
17 <option value="Murari">Murari</option>
18 <option value="Kumar">Kumar</option>
19 <option value="Rahul">Rahul</option>
20 </select>
21 <button onclick="fn1()" id="btn1">On click</button>
22
23 </body>
24
25 </html>

```

Get element by tag name

```

<html>
<head>
<title>DOM manipulations</title>
<script type="text/javascript">
//DOM manipulations & getElementById method*/
function fn1()
{
var select = document.getElementById("selectbox");
alert(select.options[select.selectedIndex].value)
}
</script>
</head>
<body>
<select id="selectbox">
<option value="Simple Snippets">Simple
Snippets</option>
<option value="Telusko Learnings">Telusko
Learnings</option>
<option value="HKBHD">HKBHD</option>
</select>
<br>
<button onclick="fn1()">Click Me</button>
</body>
</html>

```

```

<html>
<head>
<title>DOM manipulations</title>
<script type="text/javascript">
//DOM manipulations & getElementByTagName method*/
function changeStyling()
{
var para = document.getElementsByTagName("");
}
</script>
</head>
<body>
<p>This is paragraph 1</p>
<p>This is paragraph 2</p>
<p>This is paragraph 3</p>
<p>This is paragraph 4</p>
<p>This is paragraph 5</p>

<a href="#">This is anchor tag</a>
</div></div>
<div></div>
<div></div>
<div></div>
<div></div>
<div></div>
<br>
<button onclick="changeStyling()">Click Me</button>

```

```

<html>
<head>
<script type="text/javascript">
//DOM manipulations & getElementByTagName method*/
function changeStyling()
{
var para = document.getElementsByTagName("p");
para[0].style.fontSize = 25;
para[1].style.color = "red";
para[2].style.fontWeight="bold";
para[3].style.fontStyle="italic";
}
</script>
</head>
<body>
<p>This is paragraph 1</p>
<p>This is paragraph 2</p>
<p>This is paragraph 3</p>
<p>This is paragraph 4</p>
<p>This is paragraph 5</p>

<br>
<button onclick="changeStyling()">Click Me</button>

```

Get element by class name

```

<script>
//DOM manipulations & getElementByClassname method*/
function changeStyling()
{
//var tag = document.getElementsByTagName("p");
var element = document.getElementsByClassName("mypara");
for(var x=0;x<element.length;x++)
{
element[x].style.color="red";
}
}
</script>
</head>
<body>
<p id="p1" class="mypara">This is paragraph 1</p>
<p>This is paragraph 2</p>
<p class="mypara">This is paragraph 3</p>
<p>This is paragraph 4</p>
<p class="mypara">This is paragraph 5</p>
<a class="mypara" href="#">This is Anchor tag</a>
<br>
<button onclick="changeStyling()">Click Me</button>
</body>
</html>

```

```

<title>mouseover & mouseout events</title>
<script type="text/javascript">
//mouseover & mouseout events*/
function setNewImage()
{
document.getElementById("img1").src = "imgs/telusko.png";
}
function setOldImage()
{
document.getElementById("img1").src = "imgs/simple_snippets.png";
//alert();
}
</script>
</head>
<body>

</body>
</html>

```

#25 Change Image onmouseover and onmouseout events in JavaScript

```

Validation
<script>
function validate()
{
var username = document.getElementById("uname");
var password = document.getElementById("pass");

if(username.value == "" || password.value == "")
{
alert("No blank values allowed");
return false;
}
else
{
true;
}
}
</script>
</head>
<body>
<form onsubmit="return validate()"
action="message.html">
<input id="uname" placeholder="Username"
type="text"/><br>
<input id="pass" placeholder="Password"
type="password"/>
<br><br>

```

On submit extra fetature

