Java Script Objects

A "JavaScript" object is an entity having state and behavior (properties and method).

For example: car, pen, bike, chair, glass, keyboard, monitor etc.

- It is an **object-based language.(**All OOP concepts except inheritance).
- JavaScript is template based not class based. Here, we don't create class to get the object. But, we direct create objects.

Types of Objects:

- 1. Built-in Objects
- 2. User-Defined Objects

Java Script Objects - Built-in Objects

1. JavaScript Native Objects/ Built-in Objects

- JavaScript Number Object
- JavaScript Boolean Object
- JavaScript String Object
- JavaScript Date Object
- JavaScript Math Object
- JavaScript Array Object

Java Script Objects – Number

- The JavaScript number object represent a numeric value.
- The Number object is a fundamental wrapper object that represents and manages number
- Integers, decimal, or float point numbers, among many other types of numbers, are all represented as number objects.
- Values of various kinds can be turned into numbers using the Number() method.

var n=new Number(value);

```
<html>
<body>
<script>
var x=102;//integer value
var y=102.7;//floating point value
var z=13e4;//exponent value, output: 130000
var n=new Number(16);//integer value by number
object
document.write(x+" "+y+" "+z+" "+n);
</script>
</body>
</html>
```

Java Script Objects – Number

Methods	Description
isFinite()	It determines whether the given value is a finite number.
isInteger()	It determines whether the given value is an integer.
parseFloat()	It converts the given string into a floating point number.
parseInt()	It converts the given string into an integer number.
toExponential()	It returns the string that represents exponential notation of the given number.
toFixed()	It returns the string that represents a number with exact digits after a decimal point.
toPrecision()	It returns the string representing a number of specified precision.
toString()	It returns the given number in the form of string.

Constant	Description
MIN_VALUE	returns the largest minimum value.
MAX_VALUE	returns the largest maximum value.
POSITIVE_INFINI	returns positive infinity, overflow value.
NEGATIVE_INFI NITY	returns negative infinity, overflow value.
NaN	represents "Not a Number" valu

Java Script Objects – String

 The JavaScript string is an object that represents a sequence of characters.

There are 2 ways to create string in JavaScript

- 1. By string literal
- 2. By string object (using new keyword)

1) By string literal

The string literal is created using double quotes.

```
var str = "Hello"
```

```
<html>
<body>
<script>
var str="This is string literal";
document.write(str);
</script>
</body>
</html>
```

2) By string object (using new keyword)

The syntax of creating string object using new keyword is given below:

```
var str=new String("string literal");
```

hello javascript string

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JavaScript String Methods

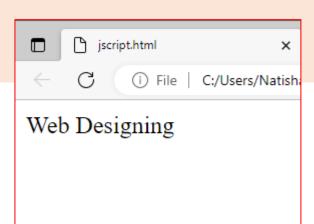
Methods	Description
charAt()	Return char value present at the specified index.
concat()	Return combination of two or more strings.
indexOf()	Return position of a char value present in the given string.
replace()	string with the specified replacement.
substr()	It is used to fetch the part of the given string on the basis of the specified starting position and length.
substring()	It is used to fetch the part of the given string on the basis of the specified index.
slice()	It is used to fetch the part of the given string
toLowerCase()	It converts the given string into lowercase letter.
toUpperCase()	It converts the given string into uppercase letter.
toString()	Returns a string representing the particular object.
split()	It splits a string into substring array , then returns that newly created array.
trim()	It trims the white space from the left and right side of the string.

String Methods

concat(str) method:

The JavaScript String concat(str) method concatenates or joins two strings.

```
<html>
<body>
<script>
var s1="Web ";
var s2="Designing";
var s3=s1.concat(s2);
document.write(s3);
</script>
</body>
</html>
```



JavaScript String indexOf(str) Method

The JavaScript String indexOf(str) method returns the index position of the given string

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String Methods

JavaScript String toLowerCase() Method

The JavaScript String toLowerCase() method returns the given string in lowercase letters

```
<html>
<body>
<script>
var s1="JavaScript toLowerCase Example";
var s2=s1.toLowerCase();
document.write(s2);
</script>
</body>
</html>
```

```
☐ jscript.html ×

← → ひ http://127.0.0.1:3000/c:/
javascript tolowercase example
```

7) JavaScript String slice(beginIndex, endIndex) Method

- The JavaScript String slice(beginIndex, endIndex) method returns the parts of string from given beginIndex to endIndex.
- In slice() method, beginIndex is inclusive and endIndex is exclusive.

```
<!DOCTYPE html>
<html>
<body>
<script>
var s1="We are together";
var s2=s1.slice(6,15);
document.write(s2);
</script>
                        [ jscript.html
                    ×
</body>
</html>
                             (i) File | C:/Users/Natisha/Des
                    together
```

String Methods

JavaScript String split() Method

splits the given string.

```
7) JavaScript String trim() Method: trim() eliminates the spaces in the string
```

```
<html>
<body>
<script>
var str="This is Web Development";
document.write(str.split(" "));
//ocument.write(s2);
</script>
</body>
</html

Discript.html
x

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```

This,is,Web,Development

```
<html>
<body>
<script>
var s1=" javascript trim ";
var s2=s1.trim();
document.write(s2);
</script>
</body>
</html>
```



Java Script Boolean Object

Boolean

- JavaScript Boolean is an object that represents value in two states: true or false.
- You can create the JavaScript Boolean object by Boolean() constructor

Boolean b=new Boolean(value);

```
<script>
document.write(10<20);//true
document.write(10<5);//false
</script>
```

Java Script Objects - Date

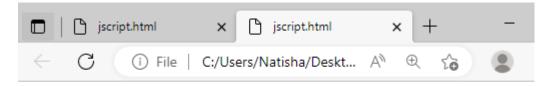
Date:

- The JavaScript date object can be used to get year, month and day.
- You can display a timer on the webpage by the help of JavaScript date object.

Constructor:

- 4 variant of Date constructor to create date object.
- 1. Date()
- 2. Date(milliseconds)
- Date(dateString)
- 4. Date(year, month, day, hours, minutes, seconds, milliseconds)

```
<html>
  <body>
Current Date and Time:
  <span id="txt"></span>
  <script>
  var today=new Date();
  document.getElementById('txt').innerHTML=today;
  </script>
  </body>
  </html>
```



Current Date and Time: Mon May 01 2023 11:04:12 GMT+0530 (India Standard Time)

Java Script Objects -Date

```
Methods
               Description
getDate()
               It returns the integer value between 1 and 31
getDay()
               It returns the integer value between 0 and 6
getFullYears()
              represents the year on the basis of local time
getMonth()
               It returns the integer value between 0 and 11
              that represents the month
                                          iscript iscript iscript iscript
<!DOCTYPE html>
                                                i File C:/Users/N
<html>
<script>
                                          Date is: 1/5/2023
     var date=new Date();
     var day=date.getDate();
     var month=date.getMonth()+1;
     var year=date.getFullYear();
document.write("<br>Date is: "+day+"/"+ month+"/"+year);
     </script>
     </body>
</html>
```

```
JavaScript Current Time Example
<html>
<body>
Current Time: <span id="txt"></span>
<script>
var today=new Date();
var h=today.getHours();
var m=today.getMinutes();
var s=today.getSeconds();
document.getElementById('txt').innerHTML=h+":"+m+":"+s;
</script>
</body>
</html>
                  🕒 jscrif 🗙 🗎 jscrif 🗙 🕒 jscr
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             Current Time: 11:33:41
```

Java Script Objects – Math Object

The JavaScript math object provides several constants and methods to perform mathematical operation.

```
let num1 = 16;
let sq = Math.sqrt(num1);
let num2 = 3.14;
let rounded = Math.round(num2);
// Generate a random number between 0 and 1
let random = Math.random();
// Calculate the maximum of two numbers
let num4 = 20;
let max = Math.max(num1, num4);
// Calculate the minimum of two numbers
let num5 = -5;
let min = Math.min(num2, num5);
```

The square root of 16 is 4 3.14 rounded to the nearest integer is 3 A random number between 0 and 1 is 0.9191471923452968 The maximum of 16 and 20 is 20 The minimum of 3.14 and -5 is -5

Java Script Objects

2. User-Defined Objects

- The new operator is used to create an instance of an object.
- To create an object, the new operator is followed by the constructor method

Syntax

var objectname=new Object();

var emp=new Object();

The Object() Constructor

- A constructor is a function that creates and initializes an object.
- JavaScript provides a special constructor function called **Object()** to build the object

Creating and assigning properties to the object

```
var emp=new Object();

emp.id=101;
emp.name="Naveen Kumar";
emp.salary=50000.50;

document.write("emp name is : " + emp.name + "<br>");
document.write("salary is : " + emp.salay+ "<br>");
```

Java Script Objects

 create a user defined object using object literal notation

```
// creating an object using object literal notation
const person = {
    firstName: "naveen",
    lastName: "reddy",
    age: 30,
    occupation: "Developer"
  };
 // accessing object properties using dot notation
  console.log(person.firstName);
  console.log(person.age);
//const creates "constant" array that cannot be reassigned
another
```

 create an object with a User-Defined object using a constructor

```
function book(title, author) //constructor
{
    this.title = title;
    this.author = author;
}
```

```
//creating array as object using constructor
var myBook = new book("JAVA", "Naveen");
    document.write("Book title is:"+myBook.title);
    document.write("Book author is:"+myBook.author);
```

Java Script Objects- Defining Methods for an Object

Defining Methods in constructor

```
<html>
<head>
</head>
<body><h3>To add a method to a JavaScript
object.</h3>
<script>
function Calculator(){
//adding the another method
  Calculator.prototype.add = function (a,b)
      var result = a+b;
      document. Writeln("sum is:"+result)
var calc = new Calculator();
 calc.add(10,20);
  </script>
</body>
</html>
```

Adding the method as a property

```
<html><head></head>
<body>
<h3>To add a method to a JavaScript
object.</h3>
<script>
   function Car(name, model, year, color) {
      this.Name = name;
      this.Model = model;
      this.Year = year;
      this.Color = color;
   var car1 = new Car("Maruti", "Vitara Brezza", "2016", "Red");
  car1.prop = function() //added as property
     document.writeln(""+this.Name+" has launched in"+this.Year);
    car1.prop();
</script>
</body>
</html>
```

JavaScript Arrays

- JavaScript array is an object that represents a collection of similar type of elements.
- 3 ways to construct array in JavaScript
 - 1. By array literal
 - 2. By creating instance of Array directly (using new keyword)
 - 3. By using an Array constructor (using new keyword)
- 1) JavaScript array literal:

var arrayname=[value1,value2.....valueN];

```
<!-- CREATING AN ARRAYA AND ACCESSING THE ELEMENTS-->
<html>
<body>
<script>

van emp=["Shivam","Vansh","Sameer"];

for (i=0;i<emp.length;i++){
  document.write(emp[i] + "<br/>);
}
</script>
</body>
</html>
```

JavaScript Array directly (new keyword)

Creating an array using new keyword:

var arr=new Array();

```
<html>
<body>
<script>
var i;
var emp = new Array();
emp[0] = "kiran";
emp[1] = "Uday";
emp[2] = "Ram";
for (i=0;i<emp.length;i++)</pre>
       document.write(emp[i] + "<br>");
</script>
</body>
</html>
```

Creating an array using constructor

 create instance of array by passing arguments in constructor so that no need to provide value explicitly.

```
<html>
<body>
<script>

var emp=new Array("vansh","shiva","sneha");
for (i=0;i<emp.length;i++)
{
         document.write(emp[i] + "<br>');
}
</script>
</body>
</html>
```

toString() method

 converts an array to a string of (comma separated) array values.

Join():

- Joins all array elements into a string.
- Also, can specify the separator

```
<html>
<body>
<h2>JavaScript Array Methods</h2>
<h2>toString()</h2>
The toString() method returns an array as a
comma separated string:
<script>
const fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo").innerHTML = fruits.toString();
</script>
</body>
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                           [ ] jsprompt.html
</html>
                                     C:/Users/Natisha/Desktop/FEE/g2
                       Banana, Orange, Apple, Mango
```

```
<html>
<body>
<script>
const fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo").innerHTML = fruits.join(" * ");
</script>
</body>
</html>
                                              +
                   [ jsprompt.html
                                           ×
                            (i) File | C:/Users/Natisha/Desktop/FEE/
                  Banana * Orange * Apple * Mango
```

pop()

removes the last element from an array:

```
<html>
<body>
<script>
const fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo1").innerHTML = fruits;
fruits.pop();
document.getElementById("demo2").innerHTML = fruits;
</script>
</body>
</html>
                        jsprompt.html
                                         X
```

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Banana, Orange, Apple, Mango

Banana, Orange, Apple

push():

adds a new element to an array (at the end)

```
<html>
<body>
<script>
const fruits = ["Banana", "Orange", "Apple"];
document.getElementById("demo1").innerHTML = fruits;
fruits.push("Strawberry");
document.getElementById("demo2").innerHTML = fruits;
</script>
</body>
</html>
                    [ jsprompt.html
                                     x | [ jsprom
                         i File C:/Users/Natisha/Desktop/F
                Banana, Orange, Apple
```

Banana, Orange, Apple, Strawberry

shift()

 removes the first array element and "shifts" all other elements to a lower index

```
<html>
<body>
<script>
const fruits = ["Banana", "Orange", "Apple", "Mango"];
document.getElementById("demo1").innerHTML = fruits;
fruits.shift();
document.getElementById("demo2").innerHTML = fruits;
</script>
</body>
</html>
                                            × +
                             [ jsprompt.html
                                 (i) File | C:/Users/Natisha/Desktop/FEE/
                          Banana, Orange, Apple, Mango
                          Orange, Apple, Mango
```

unshift():

adds a new element to an array (at the beginning), and "unshifts" older elements:

```
<html>
<body>
<script>
const fruits = ["Banana", "Orange", "Apple",
"Mango"];
document.getElementById("demo1").innerHTML = fruits;
fruits.unshift("Lemon");
document.getElementById("demo2").innerHTML = fruits;
</script>
                                         [ ] jsprompt.h
                     [ jsprompt.html
</body>
</html>
                          i File C:/Users/Natisha/Desktop/FEE/
                 Banana, Orange, Apple, Mango
                 Lemon,Banana,Orange,Apple,Mango
```

sort()

sorts an array alphabetically

```
<html>
<body>

const fruits = ["Banana", "Orange", "Apple", "Mango"];

document.getElementById("demo1").innerHTML = fruits;

fruits.sort();

document.getElementById("demo2").innerHTML = fruits;

</script>
</body>
</html>
```

```
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Banana,Orange,Apple,Mango

Apple,Banana,Mango,Orange
```

reverse():

Reverse the elements of the array

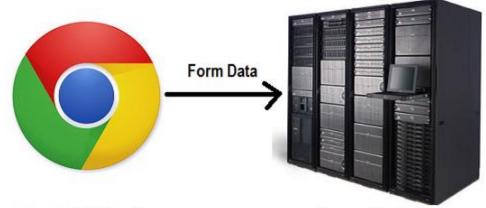
```
<html> <body>
<script>
// Create and display an array:
const fruits = ["Banana", "Orange", "Apple",
"Mango"];
// First sort the array
fruits.sort();
document.getElementById("demo1").innerHTML = fruits;
fruits.reverse();
document.getElementById("demo2").innerHTML = fruits;
</script>
</body>
                                            \times \mid \Box
                             jsprompt.html
</html>
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```

Apple,Banana,Mango,Orange

Orange,Mango,Banana,Apple

FORM VALIDATION

Validations can be performed on the server side or on the client side (web browser)



Client Side Validation

- Client side validation is an initial check and an important feature of good user experience
- by catching and requiring corrections to invalid data before it is sent to the server to be rejected there,
- the delay caused by a round trip to the server for server-side validation is avoided.

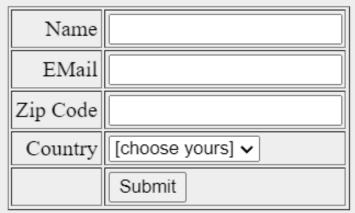
Server Side Validation

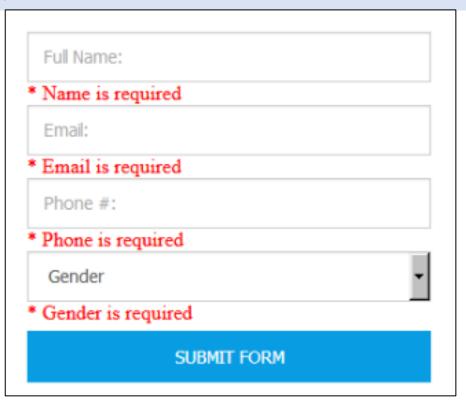
 Server-side validation is necessary to check data sent to the server, ensuring incorrect or malicious data is rejected.

FORM VALIDATION

- JavaScript provides a way to **validate form's data on the client's computer** before sending it to the web server.
- Form validation generally performs **two functions**.
- 1) Basic Validation First of all, the form must be checked to make sure all the mandatory fields are filled in.
 - It would require just a loop through each field in the form and check for data.
- 2) Data Format Validation Secondly, the data that is entered must be checked for correct form and value.

 Your code must include appropriate logic to test correctness of data.





User id:	Required and must be of length 5 to 12.
Password:	Required and must be of length 7 to 12.
Name:	Required and alphabates only.
Address:	Optional.
Country:	(Please select a country) 💌 Required. Must select a country.
ZIP Code:	Required. Must be numeric only.
Email:	Required. Must be a valid email.

FORM VALIDATION- name and password validation

Validate the name and password fields

 The name can't be empty and password can't be less than 6 characters long.

```
<script>
 function validate() {
    var username =document.getElementById("username").value;
    var password =document.getElementById("password").value;
      (username.length < 6) {</pre>
document.getElementById("unameError").innerHTML="Username must
be at least 6 chars";
         return false;
if(password.length < 8) {</pre>
 document.getElementById("pwdErnor").innerHIML="Password must be
at least 8 chars";
           return false;
         return true;
</script>
```

```
<body>
 <form name="myform" action="page2.html" onsubmit="return</pre>
validateform()" >
Enter username:
      <input type="text" id="username" name="username">
      <span id="unameError"></span><br>
Enter password
      <label for="password">Password:</label>
      <input type="password" id="password" name="password">
      <span id="pwdError"></span><br>
       <input type="submit" value="Submit">
    </form>
```

FORM VALIDATION- number validation

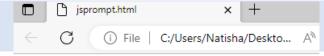
Number validation

```
<!DOCTYPE html>
<html>
<body>
<h1>Number Validation Example</h1>
<form onsubmit="return validate()">
Enter a Number
<input type="text" id="number" name="number">
<span id="numError"></span><br>
<input type="submit" value="Submit">
</form>
```

isNaN() tests if the number is the value NaN

```
<script>
function validate() {
 var number = document.getElementById("number").value;
if(isNaN(number))
document.getElementById(" numError ").innerHTML="Enter Numeric
value only";
return false;
 return true;
    </script>
  </body>
</html>
```

FORM VALIDATION- email validation



JavaScript email validation:

We can validate the email by the help of JavaScript.

- email id must contain the @ and . character
- There must be at least one character before and after the @.
- There must be at least two characters after . (dot).

```
<html> <body> <script>
function validate()
 var x=document.myform.email.value;
var atpos=x.indexOf("@");
var dotpos=x.lastIndexOf(".");
 if (atpos<1 || dotpos<atpos+2 ||</pre>
dotpos+2>=x.length)
  alert("Please enter a valid e-mail address
\n atpostion:"+atpos+"\n
dotposition:"+dotpos);
  return false;
```

```
</script>
<body>
<form name="myform" action="valid.html"
onsubmit="return validate();">

Email: <input type="text" name="email"><br/>
<input type="submit" value="register">
</form>
</body>
</html>
```

- atpos<1: checks to see there is at least one character before the "@" symbol.
- dotpos<atpos+2: checks if the "." symbol appears before the second character after the "@" symbol. This is to ensure that there is at least one character between the "@" symbol and the "." symbol.
- dotpos+2>=x.length: This is to ensure that there is at least one character after the "." symbol in the domain name.

JavaScript Retype Password Validation

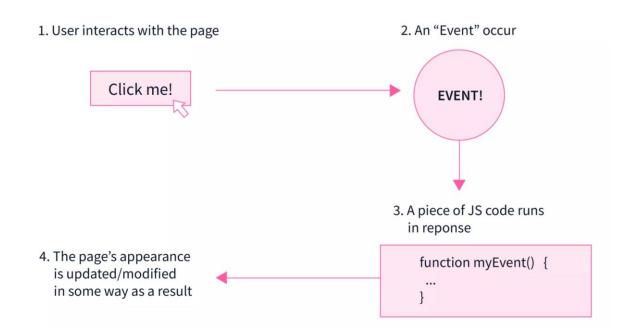
JavaScript Retype Password Validation

```
<html>
<head>
<script type="text/javascript">
function matchpass()
var firstpwd=document.f1.password.value;
var secondpwd=document.f1.password2.value;
if(firstpwd==secondpwd){
return true;
else{
alert("password must be same!");
return false;
```

```
</script>
</head>
<body>
<form name="f1" onsubmit="return matchpass()">
Password:<input type="password" name="password"
/><br/>
Re-enter Password:<input type="password"
name="password2"/><br/>
<input type="submit">
</form>
</body>
</html>
```

JavaScript Events

- An event is action performed by user in the browser.
- In html, there are various events which represents that some activity is performed by the user or by the browser.
- When javascript code is included in HTML, js react over these events and allow the execution. This process of reacting over the events is called Event Handling. Thus, js handles the HTML events via Event Handlers.
- For example, when a user clicks on the button, add js code, which will execute the task to be performed on the event.



Types of Events

Types of Events:

- Mouse events:
- Keyboard events:
- Form events:
- Window/Document events

Mouse Events			
click	onclick		
mouseover	onmouseover		
mouseout	onmouseout		
mousedown	onmousedown		
mouseup	onmouseup		
mousemove	onmousemove		

Window/Document events		
load	onload	
unload	onunload	
resize	onresize	

Form Events		
focus	onfocus	
submit	onsubmit	
blur	onblur	
change	onchange	

	Key Events
event	Evenhandler
keydown	onkeydown
keypress	onkeypress
keyup	onkeyup

Onclick event

In the following example, an onclick attribute (with code), is added to a <button> element:

```
Ex.1:
<html>
<head> Javascript Events </head>
<body>
<script>
    function clickevent()
      document.write("This is Onclick event");
</script>
<form>
<input type="button" onclick="clickevent()"</pre>
value="Who's this?"/>
</form>
</body>
</html>
```

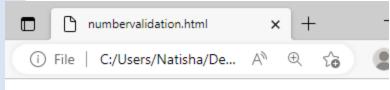
```
Ex2.
<html>
<body>
<button
onclick="document.getElementById('demo').in
nerHTML=Date()">The time is?</button>

</body>
</html>
```

mouse event- onmuseover

 Occurs when the cursor of the mouse comes over the element





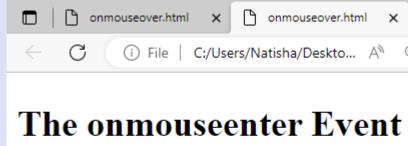
Javascript Events

Mouse Over paragraph changed

mouse event- onmouseenter, onmouseleave

- The onmouseenter event occurs when the mouse pointer enters an element.
- The onmouseenter event is often used together with the onmouseleave event, which occurs when the mouse pointer leaves an element.

```
<html>
<body>
<h2>The onmouseenter onmouseleave Events</h2>
element.
<h1 id="demo" onmouseenter="mouseEnter()"
onmouseleave="mouseLeave()">Mouse over me</h1>
<script>
function mouseEnter() {
  document.getElementById("demo").style.color = "red";
function mouseLeave() {
  document.getElementById("demo").style.color = "black";
</script>
</body>
</html>
```



Mouse over me

mouse event- onmouseenter, onmouseleave

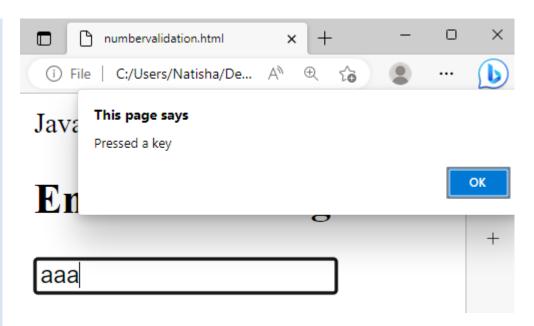
- The onmouseenter event occurs when the mouse pointer enters an element.
- The onmouseenter event is often used together with the onmouseleave event, which occurs when the mouse pointer leaves an element.

```
<html>
<head>
    <title>onmouseover Example</title>
    <script>
        function changeImage() {
           document.getElementById("my-image").src = "flower2.jpg";
        function restoreImage() {
           document.getElementById("my-image").src = "flower1.jpg";
    </script>
</head>
<body>
    <img id="my-image" src="flower1.jpg" onmouseover="changeImage()"</pre>
onmouseout="restoreImage()">
</body>
</html>
```

mouse event- Keydown Event

Keydown Event

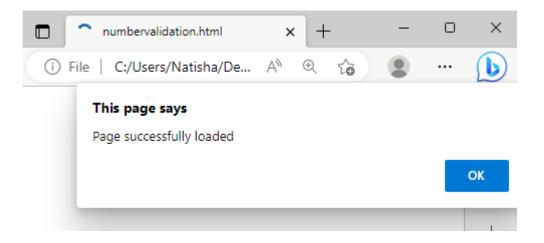
```
<html>
<head> Javascript Events</head>
<body>
<h2> Enter something here</h2>
<input type="text" id="input1"</pre>
onkeydown="keydownevent()"/>
<script>
    function keydownevent()
        document.getElementById("input1");
        alert("Pressed a key");
</script>
</body>
</html>
```



mouse event-Load Event

 Load event: onload is most often used within the <body> element to execute a script once a web page has completely loaded all content

```
<html>
<head>Javascript Events</head>
</br>
<body onload="window.alert('Page successfully loaded');">
<script>
document.write("The page is loaded successfully");
</script>
</body>
</html>
```



mouse event- resize Event

 The onresize event occurs when the browser window has been resized.

```
<html>
<body onresize="myFunction()"</pre>
Try to resize the browser window to display
the windows height and width.
<script>
function myFunction() {
 var w = window.outerWidth;
 var h = window.outerHeight;
 var txt = "Window size: width=" + w + ",
height=" + h;
  document.getElementById("demo").innerHTML =
txt;
</script>
</body>
</html>
```

Onplay and onpause events

- The onplay event occurs when an audio/video is started.
- The onpause event occurs when an audio/video is pause.

```
<html>
<body>
<h1>HTML DOM Events</h1>
<h2>The onpause Event</h2>
Assign an "onpause" event to a video
element.
Play and pause the video.
<video width="320" height="240" controls</pre>
onpause="myFunction()"
onplay="myFunction2()">
 <source src="flower.mp4" type="video/mp4">
</video>
<script>
function myFunction() {
 document.getElementById("demo").innerHTML =
"The video was paused.";
```

```
function myFunction2() {
   document.getElementById("demo").innerHTML =
"The video is playing.";
}
</script>
</body>
</html>
```



The video was paused.

JavaScript addEventListener()

- The addEventListener() method is used to attach an event handler to a particular element.
- It does not override the existing event handlers.

```
Syntax:
```

element.addEventListener(event, function);

```
<html>
<body>
 Example of the addEventListener() method. 
Click the following button to see the effect. 
<button id = "btn"> Click me </button>
<script>
document.getElementById("btn").addEventListener("click", fun);
function fun() {
document.getElementById("para").innerHTML = "Hello World" + "<br>" + "Welcome to
    Webdevelopment";
the
</script>
</body>
</html>
```