What is JavaScript?

- JavaScript was designed to add interactivity to HTML pages
- JavaScript is a scripting language (a scripting language is a lightweight programming language)
- A JavaScript consists of lines of executable computer code
- A JavaScript is usually embedded directly into HTML pages
- JavaScript is an interpreted language (means that scripts execute without preliminary compilation)
- □ Everyone can use JavaScript without purchasing a license



Difference between Java and JavaScript:





Are Java and JavaScript the same?

- NOT
- •Java and JavaScript are two completely different languages in both concept and design!
- Basically java is
- · Object Oriented
- It is strongly typed which means it supports various data types
- Supports Static & Dynamic binding, that is, polymorphism.
- Supports Classes & Packages
- •Java (which is developed by Sun Microsystems) is a powerful and much more complex programming language.
- Whereas, javascript is
- Object Based (means does not support inheritance)
- Loosely Typed (means does not have data types to declare variables)
- Supports only Dynamic binding
- ·Classes & Packages are not available

What can a JavaScript do:

0	JavaScript gives HTML designers a programming tool	
0	JavaScript can put dynamic text into an HTML page	
0	JavaScript can react to events	
0	JavaScript can read and write HTML elements	
0	JavaScript can be used to validate data	
0	JavaScript can be used to detect the visitor's browser	
0	JavaScript can be used to create cookies	
So let	us look at what Java Script can do.	
	Script gives HTML designers a programming tool authors are normally not programmers, but JavaScript is a scripting language with a very simple syntax! Almost anyo	ne can wor
lava	aScript can put dynamic text into an HTML page	

A JavaScript statement like this:

document.write("Welcome "+ name)

allows us to write a variable, name as specified in this example into an HTML page

JavaScript can react to events

A JavaScript can be set to execute when something happens, like when a page has finished loading or when a user clicks on an HTML

JavaScript can read and write HTML elements

A JavaScript can read and change the content of an HTML element

JavaScript can be used to validate data

Form data can be validated before it is submitted to a server, this will save the server from extra processing

JavaScript can be used to detect the visitor's browser

And depending on the browser - load another page specifically designed for that browser

JavaScript can be used to create cookies

You can use JavaScript to store and retrieve information on the visitor's computer in the form of cookies.

Structure of a JavaScript:

Scripts in either the head or the body section

```
Scripts in both the head and the body section
```

```
<html>
    <head>
        <script type="text/javascript">
....
        </script>
        </head>
        <body>
            <script type="text/javascript">
....
        </script type="text/javascript">
....
        </script>
        </body>
        </html>
```

Let's take a look at the structure of Java Script

The HTML <script> tag is used to insert a JavaScript into an HTML page

The lines between the <script> and </script> contain the JavaScript and are executed by the browser.

JavaScripts can be put in the <body> and in the <head> sections of an HTML page

From the given example, it is clear that java script can be inserted either into the head section or the body section or both of an HTML page

Generally, JavaScript in a page will be executed immediately while the page loads into the browser. This is not always what we want. Sometimes we want to execute a script when a page loads, other times when a user triggers an event. Event handling would be dealt with later.

AN EXAMPLE

```
<HTML>
  <BODY>
     <SCRIPT LANGUAGE="javascript">
     <!-- document.writeln("<H2 ALIGN=center><B>Hi! This is Java Script and your browser supports it.</H2></B>")//--
>
     </SCRIPT>
     <NOSCRIPT>Java Script is not supported by your browser.</NOSCRIPT>
     This text is out side the script tag in the body section
     </BODY>
</HTML>
```

Looking at the example given here, we notice that some java script code is written within <!--and //--> What does this mean?

Browsers that do not support JavaScript, will display JavaScript as page content.

To prevent this, just add an HTML comment tag <!-- before the first JavaScript statement, and a --> (end of comment) after the last JavaScript statement

The two forward slashes at the end of comment line (//) is the JavaScript comment symbol. This prevents JavaScript from executing the --> tag.

You can use the <noscript> tag to display an appropriate message if your browser does not support java script.

<source>

```
<HTML>
<BODY>

<script langauage = VBscript>
On Error Resume Next
Dim a
a = 1
b 2
MsgBox a + b
</script>
</BODY>
</HTML>
```

</source>

<Execute>

Hi! This is Java Script and your browser supports it.

This text is out side the script tag in the body section

</Execute>

JavaScript Statements:

How do you write java script statements?

- •JavaScript is a sequence of statements to be executed by the browser
- These statements can be grouped together to form blocks.
- •A block starts with a left curly bracket {, and end with a right curly bracket }.
- •The purpose of a block is to make the sequence of statements execute together.

```
<script type="text/javascript">
    document.write("<h1>This is a heading</h1>");
    document.write("This is a paragraph.");
    document.write("This is another
paragraph.");
</script>
```

```
<script type="text/javascript">
{
    document.write("<h1>This is a heading</h1>");
    document.write("This is a paragraph.");
    document.write("This is another
paragraph.");
}
</script>
```

JavaScript Comments:

A java script comment prevents the browser from executing it.
As seen here, JavaScript comments can be used to make the code more readable.
// is a comment that is used to prevent the execution of a single code line
And Multi line comments start with /* and end with */
It prevents the execution of a set of code

```
JavaScript Comments
<script type="text/javascript">
// Write a heading
    document.write("<h1>This is a heading</h1>");
The code below will write one heading and two paragraphs
    document.write("<h1>This is a heading</h1>");
    document.write("This is a paragraph.");
    document.write("This is another paragraph.");
</script>
```

JavaScript variables:

We know that variables are used to hold data

Can be declared using var.

If within a JavaScript function, variable becomes LOCAL and hence can be accessed only within that function. (we say that the variable has local scope).

 In such a case, it is destroyed when you exit the function. Global Variables need not be declared using var-

- if a variable is declared outside a function it becomes GLOBAL
- all scripts and functions on the web page will be able access it in this case
- •they are destroyed when the page is closed
- If you declare a variable, without using "var", the variable always becomes GLOBAL

As shown in the example here, variables x and name become local if declared within a function and z is automatically global as var is not used

Local Variables

- Declared within a JavaScript function and becomes LOCAL
- Can only be accessed within that function. (the variable
- Destroyed when you exit the function

has local scope).

```
Global Variables

    Declared outside a function become GLOBAL

    All scripts and functions on the web page can access it

    Destroyed when the page is closed

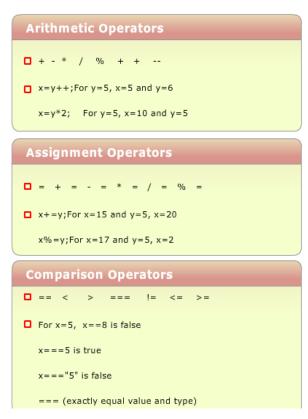
■ If you declare a variable, without using "var", the variable
   always becomes GLOBAL
```

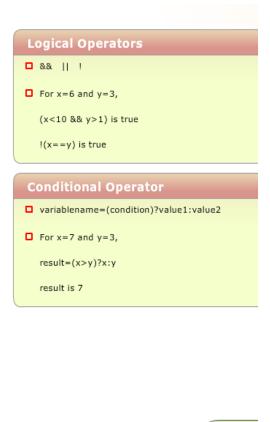
```
var x=5;
var name="anu";
z = x * 50;
```

Operators:

- Arithmetic operators are used to perform arithmetic between variables and/or values
- Assignment operators are used to assign values to JavaScript variables
- Comparison operators are used in logical statements to determine equality or difference between variables or values.
- •Logical operators are used to determine the logic between variables or values
- Conditional operator assigns a value to a variable based on some condition
- •As shown in the example, x is assigned to result if x>y else y is assigned
- All the above operators are illustrated as shown in the slide

Operators





JavaScript IfElse Statements:

Here we discuss about the various programming constructs supported by java script.

- if statement use this statement to execute some code only if a specified condition is true oin the example here, if name is equal to any only then welcome message would be displayed
- •if...else statement use this statement to execute some code if the condition is true and another code if the condition is false oif name is equal to anu only then welcome message would be displayed else "Sorry, Invalid name" would be displayed
- •if...else if....else statement use this statement to select one of many blocks of code to be executed

oSimilarly, if name is equal to scott, then Admin would be displayed, else if name is anu, user is displayed, else invalid message is displayed

```
Java Script if-else Statement
                                                                          ☐ if (name == "anu") {
                     ■ if (condition) {
                           //code to be executed if condition is true
                                                                                 document.write("<b>Welcome</b>");
                      ■ if (condition) {
                                                                          ☐ if (name == "anu") {
                             //execute code if true
                                                                                 document.write("<b>Welcome</b>");
                           } else {
                                                                              } else {
    if..else
                             //execute code if false
                                                                              document.write("Sorry, Invalid name!")
                                                                               ☐ if (name == "scott") {
                        ☐ if (condition1) {
                                                                                      document.write("<b>Admin</b>");
                               //execute code if true
                                                                                   } else if (name == "anu") {
                            } else if (condition2) {
    if-else
                                                                                      document.write("<b>User</b>");
                                //execute code if true
    if-else
                            } else {
                                                                                       document.write("<b>Invalid!</b>");
                               //execute code if neither condition1 nor
                                  condition2 is true
```

Switch Statement:

switch statement - use this statement to select one of many blocks of code to be executed.
We have a variable n whose value is compared to the values for each case in the structure.
If there is a match, the block of code associated with that case is executed.
Use break to prevent the code from running into the next case automatically.
If none of the cases are satisfied, the default case is executed.
For example, if a menu is shown, based on the choice, the operation is performed, like add, modify etc.

```
switch(n)
{
    case 1:
        // execute code block 1
        break;
    case 2:
        // execute code block 2
        break;
    default:
        // execute this if none of
    above
        cases are satisfied
}
```

```
var choice = 1;
switch(choice)
{
    case 1: document.write('Add');
        break;
    case 2:document.write('Modify');
        break;
    case 3:document.write('Delete');
        break;
    case 4:document.write('View');
        break;
    default : document.write('Invalid Choice...');
}
```

JavaScript loop Statements:

Let's look at the looping statements in javascript

Loops execute a block of code a specified number of times, or while a specified condition is true

The **for** loop -is used when you know in advance how many times the script should run. It has the initialization part, condition and increment/decrement part

The while loop- loops through a block of code while a specified condition is true

The do...while loop -is a variant of the while loop. This loop will execute the block of code ONCE, and then it will repeat the loop as long

as the specified condition is true

Here we see an example of displayed values 1 to 10 using all the three types of loops

Java Script loop Statements

```
☐ for (v=startvalue; v<=endvalue; v=v+increment) {</p>
                                                                           ☐ for (i=1;i<=10; i++) {
                       //execute if true
                                                                                 document.write("<b> Value i = " + i );
                      ■ while (v <= endvalue) {</p>
                              //execute code if true
                                                                              while (i <= 10) {
                                                                                 document.write("The number is " + i);
                                                                             □ var i = 1;
                    ■ do {
                                                                                do {
                             //execute code until condition becomes
                                                                                   document.write("Value is " + i);
do-while
                       false
                                                                                   i++;
                         } while (v <= endvalue);
                                                                                 } while (i <= 10);
```

Break and continue Statements

```
break

var i=0;
    for (i=0; i<=5; i++) {
        if (i==3) {
            break;
        }
            document.write("<br/>}
        }

Output:

0
1
2
```

```
continue

var i=0;
for (i=0;i<=5;i++) {
    if (i==3) {
    continue;
    }
    document.write("<br/>}

continue

Output:

0
1
2
4
5
```

The break statement -will break the loop and continue executing the code that follows after the loop (if any).

The continue statement- will break the current loop and continue with the next iteration

For...In Statement:

We have a special for loop called for..in to loop through the properties of an object and display them. As shown in the example, person has three properties such as First Name, Last Name and Age

```
for (variable in object)
{
    code to be
    executed
    }
```

```
variablename=(condition)?value1:value2

var person={"First Name":"John","Last Name":"Doe",Age:25};
for ( x in person ) {
   document.writeln(x + " -> "+person[x] + "<br/>);
}

Output:
First Name -> John
Last Name -> Doe
Age -> 25
```

JavaScript Functions:

To keep the browser from executing a script automatically when the page loads, you can put your script into a function and then based on an event that occurs you may call the function.

A function contains code that will be executed by an event or by a call to the function.

You may call a function from anywhere within a page

Functions can be defined both in the <head> and in the <body> section of a document. However, to assure that a function is read or loaded by the browser before it is called, it could be wise to put functions in the <head> section

The parameters var1, var2, etc. are variables or values passed into the function. The left curly bracket{ and the right curly bracket} define the start and end of the function

The return statement is used to specify the value that is returned from the function.

So, functions that are going to return a value must use the return statement

JavaScript Functions

```
Defining a Function

function functionname(var1,var2,...,varX)

some code
}
```

```
The return Statement

function functionname(var1,var2,...,varX)

some code
return somevalue;
}
```

Applications of JavaScript:

- Therefore, we summarize the applications of JavaScript, it is a client-side language
- It is often used to perform operations like form input validation.
- Java Scripts are integrated into the browsing environment.
- They can also react to events

Applications of Java Script

- JavaScript is a client-side language
- JavaScript is often used to perform operations like form input validation.
- ☐ Java Scripts are integrated into the browsing environment
- Java Scripts can also react to events



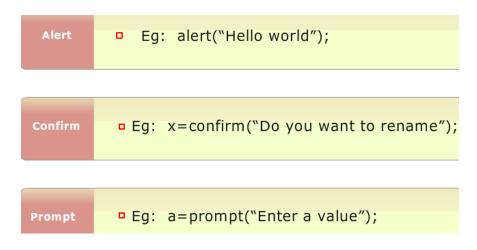
Dialogue Boxes:

Dialog Boxes in Java Script

Alert This Dialog box is used to display an alert message.

Confirm This Dialog box is used to confirm the message from user. It will return true/false.

Prompt This Dialog box is used to take input from the user. Input value is stored in a variable.



<source>

</source>

<Execute>

You have entered a number less than or equalto five

</Execute>

Event Handlers:

Events are actions that can be detected by JavaScript

Few event handlers are specified below

- onBlur
- onChange
- onClick
- onFocus

A function can be executed either by an event or by a call to the function. For example, on Click event of a button performs some action. Examples of events:

- •A mouse click
- •A web page or an image loading
- Moving the mouse over a hot spot on the web page
- Selecting an input field in an HTML form.
- Submitting an HTML form
- A keystroke
- onMouseDown
- onMouseOver
- onMouseUp

onblur onchange onclick onfocus onmousedown onmouseover onmouseup

Let's discuss the use of few event handlers

- •onLoad and onUnload used to trigger an event when the user enters and leaves the page respectively
- •onBlur In the given example, when the email text field loses focus, we invoke the checkEmail function to validate the content
- •The onSubmit event is used to validate ALL form fields before submitting it
- •The other events specified here are self explanatory
- •A sample on using events is demonstrated later

onLoad and onUnload

onLoad and onUnload

triggered when the user enters or leaves the page

onFocus, onBlur and onChange

- often used in combination with validation of form fields
- <input type="text" size="30" id="email" onchange="checkEmail()">

onSubmit

- $\hfill\Box$ The onSubmit event is used to validate ALL form fields before submitting it
- <form method="post" action="xxx.htm" onsubmit="return checkForm()">

onMouseOver

☐ The onmouseover event can be used to trigger a function when the user mouses over an HTML element

Here's an example that shows how the message() method is invoked on clicking the hyperlink, result of which displays an alert message saying "Hey, it's working".

<source>

```
<HTML>
<BODY>
<script>
  function message()
  {
    alert("Hey It's working!");
  }
</script>

    <A HREF="example5.3.html" onclick="message()">Hello! Click me</A>
    </FORM>
</BODY>
</HTML>
```

</source>

<Execute>

Hello!Click me

</Execute>

External JavaScript:

When a javascript is included in a html page, it is useful to the current web page only. Therefore, in order to reuse it for other web pages also, we can include the script into a separate text file with an extension as ".js". This gives us more security.

The src attribute of the script tag is used to specify the location of the java script file.

What is an Object:

- Properties are the values associated with an object. For example, consider
- variable txt="Hello World!"; Therefore, length is a property that displays the size of the text, that is, 12 for Hello World! //document.write(txt.length);
- Methods are the actions that can be performed on objects. For example,
- •variable str="Hello world!"; Therefore, toUpperCase() is a method that displays the string in upper case //document.write(str.toUpperCase());

The document itself is an object, made up of other objects like forms, images and tables Form objects are further made up of objects like text boxes and submit buttons

An object is a special kind of data that has properties and methods		
var txt="Hello Worldown document.write(txt.		
Methods are the	actions that can be performed on objects	
□ var str="Hello worl document.write(str		
	read these properties and modify them, or react to events that happen to s changing the object in the browser window.	
Few Java Script	Objects are specified below:	
☐ Array ☐ String		
Date Math		

Array Object in JavaScript:

Here we discuss about the **Array** object in java script, its properties and methods The Array object is used to store multiple values in a single variable Creation of this object is as shown here

It has a property called length that gives the number of elements it contains

Array Object in Java Script

Used to store multiple values in a single variable		
uar names=new Array(); // regular array (add an optional integer		
names[0]="anu"; // argument to control array's size)		
names[1]="raj";		
names[2]="karan"; //OR		
□ var names=new Array("anu","raj","karan"); // condensed array OR		
uar names=["anu","raj","karan"]; // literal array		
□ length - Returns the length of a string		
 concat() - Joins two or more arrays, and returns a copy of the joined arrays 		
□ join() - Joins all elements of an array into a string		

pop() - Removes the last element of an array, and returns that element
 push() - Adds new elements to the end of an array, and returns the new length
 reverse() - Reverses the order of the elements in an array
 shift() - Removes the first element of an array, and returns that element
 slice() - Selects a part of an array, and returns the new array
 sort() - Sorts the elements of an array
 splice() - Adds/Removes elements from an array
 toString() - Converts an array to a string, and returns the result
 unshift() - Adds new elements to the beginning of an array, and returns the new length

String Object

used to manipulate a stored piece of text var str="hello world"; //OR var str = new String("hello world"); length - Returns the length of a string charAt() - Returns the character at the specified index charCodeAt() - Returns the Unicode of the character at the specified index concat() - Joins two or more strings, and returns a copy of the joined strings indexOf() - returns position of the first occurrence of a specified value in a string lastIndexOf() - returns position of last occurrence of specified value in a string replace() - replace a specified value with another value in a string search() - returns position of a match between a regular expression and a string slice() - Extracts a part of a string and returns a new string split() - Splits a string into an array of substrings substr() - Extracts characters from a string, from start position specified, and through the specified number of character substring() - Extracts the characters from a string, between two specified indices ■ toLowerCase() - Converts a string to lowercase letters toUpperCase() - Converts a string to uppercase letters

```
Date Object
          used to work with dates and times
          var d=new Date(); document.write(d); //get's today's date
                                                                                       EXAMPLE //Compares two dates
          new Date(milliseconds) //milliseconds since 1970/01/01
                                                                                      var x=new Date();
x.setFullYear(2011,0,14);
var today = new Date();
if (x>today) {
alert("Today is before 14th Jan
          new Date(dateString)
          new Date(year,month,day,hours,minutes,seconds,milliseconds)
                                                                                      2011");
} else
          □ Few commonly used methods are:
                                                                                          alert("Today is after 14th Jan
          getDate() - day of the month (from 1-31)
                                                                                       2011");
          getDay() - day of the week (from 0-6)
          getFullYear() - year (four digits)
          getHours() - hour (from 0-23)
          getMilliseconds() - milliseconds (from 0-999)
          getMinutes() - minutes (from 0-59)
                                                                                          Click each button to know n
          getMonth() - month (from 0-11)
          getSeconds() - seconds (from 0-59)
          getTime() - number of milliseconds since midnight Jan 1, 1970
          parse() - Parses a date string and returns the number of milliseconds since midnight of January 1, 1970
          toString() - Converts a Date object to a string
          Similarly we have setters for each of the above
```

<source>

</source>

<Execute>



</Execute>

Math Object:

It is used to perform common mathematical tasks

Math Object

```
allows you to perform mathematical tasks

var x = Math.PI; // Returns PI
var y = Math.sqrt(16); // Returns the square root of 16

Properties

PI - approx. 3.14159
E - Euler's number (approx. 2.718)
LN2 - natural logarithm of 2 (approx. 0.693)
LN10 - natural logarithm of 10 (approx. 2.302)
SQRT1_2 - square root of 1/2 (approx. 0.707)
SQRT2 - square root of 2 (approx. 1.414)
```

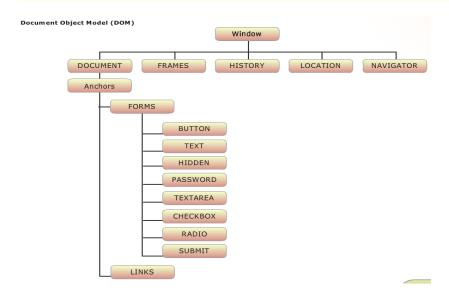
Its common methods are as follows:

```
onmouseover

□ abs(x) - absolute value of x
□ cos(x), sin(x), tan(x) - cosine, sine, tangent of x, in radians
□ acos(x), asin(x), atan(x) - arccosine, arcsine, arctangent of x, in radians
□ ceil(x) - rounds x upwards to the nearest integer
□ exp(x) - value of Ex
□ floor(x) - rounds x downwards to the nearest integer
□ log(x) - natural logarithm (base E) of x
□ max(x,y,z,...,n) - number with the highest value
□ min(x,y,z,...,n) - number with the lowest value
□ pow(x,y) - value of x to the power of y
□ random() - random number between 0 and 1
□ round(x) - Rounds x to the nearest integer
□ sqrt(x) - square root of x
```

Document Object Model:

- •The root in the DOM hierarchy is the Window object
- Each HTML document when loaded into a browser window becomes a **Document** object.
- •The Document object provides access to all HTML elements in a page, from within a script, and can be accessed through the window.document property.



The DOM defines a standard way for manipulating and accessing HTML documents.

Some of the objects in the DOM model are as follows:

- The Window object relates to the current browser window
- •The Document object represents a web page that contains the various HTML Elements. It relates to the <body> tag and can be accessed through the window.document_property.
- •Frames is n array of frames if the window object contains any. Each frame in turn refers to another Window object.
- •History contains the current windows history list, namely, the collection of the various URL visited by the user recently. It can be accessed through the window history property.
- Location contains information about the current URL, that is, the current location of the document being viewed in the form of an URL.
 It can be accessed through the window.location property.
- Navigator is an object that describes the basic characteristics of the browser and can be accessed through the window.navigator property

Here is an example of opening the e-support Window through Java Script using the window.open() method and closing the window using window.close() method.

<source>

```
<HTML>
<HEAD>
</HEAD>
<BODY>
<script language="javascript">
function gotoesupport() {
  winRef=window.open("http://esupport.satyam.com/","esupport","resizable='no'","yes");
}
function exitesupport() {
  winRef.close();
}
</script>
<input type="button" onclick="gotoesupport()" value="e-support">
<input type="button" value="close" onclick="exitesupport()">
</BODY>
</HTML>
```

</source>

<Execute>

e-support close

Click on the 'e-support' button to open e-support and Close button to close e-support

</Execute>

Document Object:

Let's understand the collections available in the Document object

- anchors[] Returns an array of all the anchors in the document
- ·forms[]- Returns an array of all the forms in the document
- •images[]- Returns an array of all the images in the document
- links[]- Returns an array of all the links in the document.

The Anchor object in java script corresponds to the <a> (anchor) tag in html

The Form Object corresponds to the <form> tag in html. Forms are used to collect user input, and contain input elements like text fields, checkboxes, radio-buttons, submit buttons and more. A form can also contain select menus, textarea, fieldset, legend, and label elements. Forms are used to pass data to a server

The **Link** object represents an HTML link element that must be placed inside the head section of an HTML document, and it specifies a link to an external resource

The Image Object corresponds to the (image) tag in an HTML document and represents an embedded image.

The Frame object corresponds to the <frame> tag that defines one particular window (frame) within a frameset

Document Object

All
Anchor
Anchors
Applet
Applets
Embeds
Forms
Frames
Image
Images
Link
Links
Scripts
Selection

Form:

The **Form** object further contains other objects such as Buttons, Checkboxes, Radio buttons etc. Let's discuss few of these objects here (Please refer to the powerpoint slides for the properties and methods of these objects in detail).

The Button object represents a push button and corresponds to the <button> tag in an HTML document

The Checkbox object corresponds to the <input type="checkbox"> tag in an HTML form and allows a user to select one or more options of a limited number of choices.

The **FileUpload** object corresponds to the <input type="file"> tag in an HTML form and allows file uploading to a server

The **Hidden** object corresponds to the <input type="hidden"> tag in an HTML form and is used to send hidden form data to a server. The **Password** object corresponds to the <input type="password"> tag in an HTML form. The content of a password field will be masked in a browser.

The **Radio** object corresponds to the <input type="radio"> tag in an HTML form. It allows the user to select only ONE of a predefined set of options

The **Text** object corresponds to the <input type="text"> tag in an HTML form. It represents a single-line text input field

The **Textarea** object corresponds to the <textarea> tag in an HTML form

The **Select** object corresponds to the <select> tag in an HTML form and represents a dropdown list, that lets a user select one or more options of a limited number of choices.

The **Submit** object corresponds to the <input type="submit"> tag in an HTML form. Clicking on a submit button sends the named contents of the form to the server

The Option object corresponds to the <option> tag in an HTML form and represents an option in a dropdown list.

Button	
Checkbox	
Elements	
Fileupload	
Hidden	
Option	
Password	
Radio	
Radio Select	
Select	

Client Side Validation using JavaScript:

Validations can be done in one of the two ways

- · validating every field individually.
- validating all fields while submitting the form.

Validating the form fields is one of the most important features of javascript. These validations help us in checking whether users are entering correct data or not.

The example specified here validates the username and password before submitting the data to ensure that the values are entered by the user as they are mandatory fields. If not entered, then an error message is alerted else the form data is submitted to the server.



<source>

```
<html>
<head>
            <script language="javascript">
                 function validate()
                               if(document.loginfrm.user.value=="" || document.loginfrm.password.value=="")
                                      alert("Please enter all fields");
                                      document.loginfrm.user.focus();
                                     return false;
                               return true;
   </script>
</head>
<body>
<FORM NAME="loginfrm" onsubmit="return validate()">
   <INPUT TYPE="submit" value="submit" >
</FORM>
</body>
</html>
```

</source>

<Execute>

User Name:	
Password:	
submit	

</Execute>

*** For Task and Advanced JavaScript Examples refer elinc ***

