

Subject : Information Technology

Standard : 12th Science.

Chapter No. 3 : Advanced JavaScript.

**Topic Name : JavaScript Event, JavaScript Built-in
Objects.**

JavaScript Event :

- Events are action done by the user or an application that occurs on the webpage.
- There are different keyboard events like `onKeypress`, `onKeyDown`, `onKeyUp` and mouse events like `onMouseout`, `onMouseover`.
- Similarly there are some more events used with form objects.

Input and Other Object Events :

EVENT HANDLER	DESCRIPTION
Onblur	It occurs when user leaves field or losses focus of an element.
Onfocus	It occurs when an element gets focus.
Onchange	It occurs when user changes content of an element or selects dropdown value. E.g. for textbox, password, select box, textarea etc.
onselect	It occurs when user selects some text of an element.

Input and other object Events :

Event handler	Description
onsubmit	It occurs when user clicks submit button.
onreset	It occurs when user clicks reset button.
onload	It occurs when user page/image has been loaded.
onunload	It occurs when document/page has been unloaded or closes.

JavaScript Built-in Objects :

- JavaScript has several built-in or core language objects.
- These built-in objects are available regardless of window content and operates independently of whatever page browser has loaded.
- These objects provide different properties and methods that are useful while creating live web pages.

String Object :

- String is used to store zero or more character of text within single or double quotes. String object is used to store and manipulate text.

PROPERTY	DESCRIPTION
length	Returns the number of characters in a string.

String Object :

Method	Description
charAt()	Returns the character at the specified position (in Number).
indexOf()	Returns the index of the first occurrence of specified character in given string, or -1 if it never occurs, so with that index you can determine if the string contains the specified character
lastIndexOf()	Returns the index of the last Occurrence of specified characters in given string
substr()	Returns the characters you specified: (14,7) returns 7 characters, from the 14 th character.

String Object :

Method	Description
substring()	Returns the characters you specified: (7,14) returns all characters between the 7 th and the 14 th .
trim()	The trim() method removes whitespace from both side of a string.
toLowerCase()	Converts a string to lower case.
toUpperCase()	Converts a string to upper case.

Example of String Object :

- Program :

```
var str="Information Technology";  
document. Write (" length of string is :-" + str. length);  
document. Write(" Substring  is :-" + str. Substr (12,10));
```

- Output:

```
Length of string is :-22  
Substring is :- Technology
```

Number Object :

- It helps us to work with numbers. Primitive values (like 34 or 3.14) cannot have properties and methods, but with JavaScript it is available with primitive values.

Property	Description
MIN_VALUE	Returns the largest minimum value.
MAX_VALUE	Returns the largest maximum value.
NaN	It represents 'Not a Number' value.

Number Object :

Method	Description
isInteger()	It determines whether the given values is a Integer.
parseFloat()	It converts the given string into a floating point number.
parseInt()	It converts the given string into a integer number.
isFixed()	It returns the string that represents a number with exact digits after a decimal point.

THANK YOU.
