**JavaScript**

Javascript is a scripting language as HTML. But the disadvantage of using HTML is that it can produce only static web pages. In order to provide interactivity in a web page, Javascript is a good solution.

In other words, interactive web pages can be developed using Javascript.

1. Javascript was developed by Netscape in 1995 with the name Livescript. Later on, Sun Microsystems joined Netscape and they changed its name from Livescript to javascript.
2. Javascript has three parts:
3. Core: It includes operators, expressions, statements and subprograms.
4. Client side: It is a collection of objects using which one can have control over the browser, and user browser interaction is possible.
5. Server side: It is a collection of objects using which one can access the database on the server.
6. Difference between Java and Javascript:

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| S. No. | Java | Javascript |
| 1 | It is a programming Language | It is a scripting language |
| 2 | It is an object oriented programming language | It is an object based language. Its object model is far more different from any object oriented programming language |
| 3 | It is strongly typed language. The type checking is done at compile time. | It is a loosely typed language. The variables need not be declared before their use. Checking the compatibility of type can be done dynamically. |
| 4 | The objects in Java are static. The number of methods and members are fixed at Compile time. | The objects are dynamic. We can change the total data members and methods at the time of execution. |

1. Applications of Javascript:

The applications of javascript include:

1. Javascript can be used as an alternative to java Applets. The java applets need to be downloaded separately, even though they are embedded in HTML. On the other hand, javascript need not be downloaded separately.
2. Javascript can easily be embedded in HTML
3. Using DOM (Document Object Model), we can access and modify the contents of CSS and contents of HTML document dynamically. Hence, static web document becomes dynamic.
4. Javascript can effectively be used for interaction with the users. It supports all form elements and its events can be applied to various elements.
5. It is used to validate the data on the web page before submitting it to the user.