

Subject : Information Technology

Standard : 12th Science.

Chapter No. 3 : Advanced JavaScript.

Topic Name : JavaScript , Feature of JavaScript.

What is JavaScript ?

- JavaScript is the **Programming Language** for the Web.
- JavaScript is an interpreted scripting language.
- An interpreted language is a type of programming language that executes its instructions directly and freely without compiling machine language instructions in previous program.
- Program is a set of instructions used to produce various kind of outputs.
- JavaScript was initially created to “make webpage alive”.
- The program in this language are called scripts.

Features of JavaScript :

- JavaScript is light weight scripting language because it does not support all features of object oriented programming languages.
- No need of special software to run JavaScript programs.
- JavaScript is a object-based scripting language and it supports event based programming facility. It is case sensitive language.
- JavaScript helps the browser to perform input validation without wasting the user's time by the web server access.

Features of JavaScript :

- It can handle date and time very effectively.
- Most of the JavaScript control statements syntax is same as syntax of control statements in other programming languages.
- An important part of JavaScript is the ability to create new functions within scripts. Declare a function in JavaScript using function keyword.
- Software that can run on any hardware platform (pc, Mac, SunSparc etc.) or software platform (Windows, Linux, Mac OS etc.) is called as platform independent software.

Features of JavaScript :

- JavaScript is platform independent Scripting language.
- Any JavaScript enabled browser can understand and interpreted JavaScript code.
- Due to different features, JavaScript is known as universal client side scripting language.

Two Types of Scripting :

1. Client Side Scripting :

- In this type, the script resides on client computer (browser) and that can run on the client.
- Basically, these types of scripts are placed inside an HTML documents.

2. Server Side Scripting :

- In this type, , the script resides on web server.
- To execute the script it must be activated by client then it is executed on web server.

Difference between Server Client Scripting and Client Side Scripting :

1. Server- Side Scripting is used at the backend, where the source code is not visible or hidden at the client side (browser). On the other hand, client-side scripting is used at the frontend which users can see from browser. So Server-side scripting is more secure than client-side scripting.
2. When a server-side script is processed it communicates to the server. As against, client-side scripting does not need any server interaction.
3. The client-side scripting languages such as HTML5, JavaScript etc. In contrast, programming languages such as PHP, ASP.net, Ruby, ColdFusion, Python, C# etc. are server side scripting languages.

Difference between Server Client Scripting and Client Side Scripting :

4. Server-side scripting is useful in customizing the web pages and implements the dynamic changes in the websites. Conversely, the client-side scripts are generally used for validation purpose and effectively minimize the load to the server.
5. Special software (web server software) is required to execute server-side scripts requires web browser as an interface.

THANK YOU.
