**JavaScript and jQuery**

## Q1-> What is JavaScript ?

JavaScript is a dynamic computer programming language. It is lightweight and most commonly used as a part of web pages, whose implementations allow client-side script to interact with the user and make dynamic pages. It is an interpreted programming language with object-oriented capabilities.

JavaScript was first known as LiveScript**,** but Netscape changed its name to JavaScript, possibly because of the excitement being generated by Java.

## Advantages of JavaScript

* *Less server interaction* − You can validate user input before sending the page off to the server. This saves server traffic, which means less load on your server.
* Immediate feedback to the visitors − They don't have to wait for a page reload to see if they have forgotten to enter something.
* Increased interactivity − You can create interfaces that react when the user hovers over them with a mouse or activates them via the keyboard.
* Richer interfaces − You can use JavaScript to include such items as drag-and-drop components and sliders to give a Rich Interface to your site visitors.

## Q2-> What is jQuery?

## jQuery is a JavaScript library that makes it easy to create dynamic web pages. It helps in making web apps more efficient and interactive. It also helps to speed up the development process by providing a set of functions that can be used to manipulate data. It is a lightweight library that can be easily integrated into any website.

### **Q3->** **What are the advantages of jQuery?**

* Most popular and open source
* Very fast and easily extensible
* Used to develop cross-browser compatible web applications as jQuery works in almost the same manner for different kinds of browsers.
* Improves the performance of an application when using the minimised version of the jQuery library. The size of the minimized js file is almost 50% less than the normal is file. A reduction in the file size makes the web page load and work faster.
* Commonly implemented UI-related functionalities are written using minimal lines of code.

### **Q4->** **What is jQuery click event?**

* jQuery click event happens when we click on an HTML element.
* jQuery provides a method click() method that aids to trigger the click event.
* For example, $(“p”).click() will trigger the click event whenever the elements with paragraph tag are clicked on a browser page.

**Syntax:**

$(selector).click(function(){

//code that runs when the click event is triggered

});

**Q5->** **What is AJAX?**

### AJAX stands for Asynchronous JavaScript and XML. AJAX is a new technique for creating better, faster, and more interactive web applications with the help of XML, HTML, CSS, and Java Script.

Ajax uses XHTML for content, CSS for presentation, along with Document Object Model and JavaScript for dynamic content display.

With AJAX, when you hit submit, JavaScript will make a request to the server, interpret the results, and update the current screen. In the purest sense, the user would never know that anything was even transmitted to the server.