**JQuery Assignment**

Q1 What is jQuery?

Ans. DOM Manipulation:

jQuery provides a concise and simplified syntax for DOM traversal and manipulation. You can easily select and manipulate HTML elements.

Event Handling:

jQuery simplifies event handling in JavaScript. You can attach event handlers to elements and respond to user actions like clicks, keypresses, and more.

Ajax Support:

jQuery makes it easy to perform asynchronous operations using Ajax. You can load data from the server without requiring a full page reload.

Animations and Effects:

jQuery includes built-in animation and effect functions, allowing you to create smooth transitions and animations on web pages.

Cross-browser Compatibility:

jQuery abstracts away many of the browser-specific differences, providing a consistent interface that works across various browsers.

Utilities:

jQuery includes utility functions for tasks like data manipulation, string manipulation, and more. It simplifies common programming tasks.

Chaining:

jQuery supports method chaining, allowing you to perform multiple operations on the same set of elements in a single line of code.

Extensibility:

jQuery is extensible, and you can add plugins to enhance its functionality. There are numerous plugins available for various purposes.

Community and Documentation:

jQuery has a large and active community of developers. It also provides extensive documentation, making it easy for developers to learn and use.

Cross-platform:

jQuery is designed to work across different platforms, including desktop and mobile browsers.

Q2 How to Apply CSS Using JQuery, How to Add Class and Remove Class in Jquery, JQuery Animation?

Ans. You can apply CSS styles to elements using jQuery's .css() method.

You can add and remove classes using the .addClass() and .removeClass() methods, respectively.

jQuery provides several methods for creating animations. The most common ones are .show(), .hide(), .fadeIn(), .fadeOut(), .slideDown(), and .slideUp(). You can also use the .animate() method for more complex animations.

Q3 How to create slider with animation?

Ans. In the JavaScript code, we use the $("#slider").slider() method to create a slider. The slide event is used to update the displayed value as the slider is moved.

Customize the options inside the slider({ ... }) method based on your requirements. In this example, min and max set the range of the slider, and value sets the initial value.

Add styling to your page as needed. The jQuery UI theme is included in the example using the CDN link.

Customize the appearance and behavior of the slider according to your design and functionality needs.