* **JQuery Basic, Effects & Advanced**

1. **What is jQuery?**

* jQuery is a fast, small, and feature-rich JavaScript library.
* It simplifies tasks like HTML document traversal and manipulation, event handling, animation, and Ajax interactions.
* It's widely used for its simplicity and cross-browser compatibility, allowing developers to write concise and efficient code to enhance web development.

1. **How to Apply CSS Using JQuery, How to Add Class and Remove Class in Jquery, JQuery Animation?**

* **Applying CSS with jQuery**: Use jQuery's .css() method to apply CSS styles to HTML elements dynamically.
* **EX** :- $("p").css("color", "red");
* **Adding and Removing Classes with jQuery**: Use .addClass() to add a class and .removeClass() to remove a class from HTML elements.
* **EX** :- $("div").addClass("highlight"); or $("div").removeClass("highlight");
* **jQuery Animation**: jQuery provides methods like .animate() to create animations.
* **EX** :- $("div").animate({ opacity: 0.25, left: "+=50", height: "toggle" }, 1000 );
* This animates opacity, left position, and height of the selected <div> element over 1 second.

1. **How to create slider with animation?**

* **HTML Structure**: Set up a container <div> to hold the slides, and individual <div> elements for each slide.
* **CSS Styling**: Style the slider container and slides to control their appearance and layout.
* **JavaScript/jQuery**: Use JavaScript or jQuery to implement the slider functionality. This involves:
  + Tracking the current slide index.
  + Handling user interaction to navigate between slides.
  + Animating the transition between slides using CSS transitions or jQuery animations.
* **Optional: Auto-advance**: You can implement auto-advancing slides using JavaScript's setInterval() function or jQuery's .animate() method.