**What is jQuery?**

* jQuery is a popular JavaScript library designed to simplify scripting tasks in HTML.
* It simplifies things like HTML document traversal and manipulation, event handling, animation, and AJAX.
* It makes it easier to write JavaScript code by providing a simpler syntax and a set of methods to perform common tasks.

**How to Apply CSS Using jQuery, How to Add Class and Remove Class in jQuery ,jQuery Animation?**

**Applying CSS Using jQuery:**

* We can use jQuery to apply CSS to HTML elements.

example of applying CSS properties using jQuery:

**$(document).ready(function(){**

**$("p").css("color", "red"); });**

**Adding and Removing Classes Using jQuery:**

* jQuery makes it easy to add or remove classes from HTML elements:

**Adding a class:**

$(document).ready(function(){

$("button").click(function(){

$("p").addClass("highlight"); }); });

**Removing a class:**

$(document).ready(function(){

$("button").click(function(){

$("p").removeClass("highlight"); }); });

**jQuery Animation:**

* jQuery provides functions to create animations on HTML elements.
* Common animation functions include

fadeIn(),

fadeOut()

slideUp()

slideDown()

animate()

**example**

$(document).ready(function(){

$("button").click(function(){

$("p").fadeOut(); }); });

**How to create slider with animation?**

Creating a Slider with Animation:

* To create a slider with animation, you can use jQuery along with HTML and CSS.
* There are several jQuery plugins available that facilitate slider creation.
* One popular plugin is the "slick" carousel

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script> <!-- Slick --> <link rel="stylesheet" type="text/css" href="https://cdnjs.cloudflare.com/ajax/libs/slick-carousel/1.8.1/slick.min.css"/> <script type="text/javascript" src="https://cdnjs.cloudflare.com/ajax/libs/slick-carousel/1.8.1/slick.min.js"></script>

**HTML Structure:**

<div class="slider">

<div><img src="image1.jpg" alt="Image 1"></div>

<div><img src="image2.jpg" alt="Image 2"></div>

<div><img src="image3.jpg" alt="Image 3"></div>

</div>

**javascript**

$(document).ready(function(){

$('.slider').slick({ autoplay: true, autoplaySpeed: 2000,

}); });