**MODULE :5(JQuery Basic,Effect & Advance)**

1. **What is JQuery?**

* jQuery is a popular JavaScript library that simplifies HTML document traversal, event handling, and Ajax interactions for rapid web development. It provides a simple and intuitive way to interact with HTML documents, handle events, create animations, and add Ajax functionality to web pages.
* Here are some of the key features of jQuery:-
* DOM, Event handling,Ajax,Animations,Plugins

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

=>To apply CSS using jQuery, you can use the `css()` method. Here's an example that changes the background color of all paragraphs on a web page to red:

//Javascript

&(“p”).css(“background-color”:”red”);

To add a class to an element using jQuery, you can use the `addClass()` method. Here's an example that adds the class "highlight" to all paragraphs on a web page:

//Javascript

$('p').addClass('highlight');

//Remove mate

To remove a class from an element using jQuery, you can use the `removeClass()` method. Here's an example that removes the class "highlight" from all paragraphs on a web page:

//Javascript

$('p').removeClass('highlight');

//Animations mate

To animate the addition or removal of a class using jQuery, you can use the `animate()` method. Here's an example that animates the addition of the "highlight" class to all paragraphs on a web page:

//Javascript

$('p').animate({backgroundColor: 'yellow'}, 1000, function() {

$(this).addClass('highlight');

});

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

**=>**To create a slider with animation, you can use a combination of HTML, CSS, and jQuery. Here's a basic example:

**HTML:**

**html**

<div class="slider">

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

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

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

</div>

CSS:

css

.slider {

position: relative;

width: 100%;

height: 400px;

overflow: hidden;

}

.slider img {

position: absolute;

top: 0;

left: 0;

width: 100%;

height: 100%;

opacity: 0;

transition: opacity 1s ease-in-out;

}

.slider img.active {

opacity: 1;

}

jQuery:

javascript

$(document).ready(function() {

$('.slider img:first-child').addClass('active');

setInterval(function() {

var current = $('.slider img.active');

var next = current.next();

if (next.length === 0) {

next = $('.slider img:first-child');

}

current.removeClass('active');

next.addClass('active');

}, 5000);

});