MODULE: 5 (JQuery Basic, Effects & Advance)

**(1) What is JQuery?**

**Ans -**

jQuery is a lightweight, "write less, do more", JavaScript library.

The purpose of jQuery is to make it much easier to use JavaScript on your website.

jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.

jQuery also simplifies a lot of the complicated things from JavaScript, like AJAX calls and DOM manipulation.

The jQuery library contains the following features:

HTML/DOM manipulation

CSS manipulation

HTML event methods

Effects and animations

AJAX

Utilities

**(2) How to Apply CSS Using JQuery, How to Add Class and Remove Class in JQuery, JQuery Animation?**

**Ans -**

With jQuery, it is easy to manipulate the style of elements.

addClass() - Adds one or more classes to the selected elements.

<!DOCTYPE html>

<html>

<head>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>

<script>

$(document).ready(function(){

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

$("#div1").addClass("important blue");

});

});

</script>

<style>

.important {

font-weight: bold;

font-size: xx-large;

}

.blue {

color: blue;

}

</style>

</head>

<body>

<div id="div1">This is some text.</div>

<div id="div2">This is some text.</div>

<br>

<button>Click me!</button>

</body>

</html>

removeClass() - Removes one or more classes from the selected elements.

<!DOCTYPE html>

<html>

<head>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>

<script>

$(document).ready(function(){

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

$("h1, h2, p").removeClass("blue");

});

});

</script>

<style>

.blue {

color: blue;

}

</style>

</head>

<body>

<h1 class="blue">Heading 1</h1>

<h2 class="blue">Heading 2</h2>

<p class="blue">This is a paragraph.</p>

<p>This is another paragraph.</p>

<button>Click me!</button>

</body>

</html>

css() - Sets or returns the style attribute

<!DOCTYPE html>

<html>

<head>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>

<script>

$(document).ready(function(){

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

$("h1, h2, p").removeClass("blue");

});

});

</script>

<style>

.blue {

color: blue;

}

</style>

</head>

<body>

<h1 class="blue">Heading 1</h1>

<h2 class="blue">Heading 2</h2>

<p class="blue">This is a paragraph.</p>

<p>This is another paragraph.</p>

<button>Click me!</button>

</body>

</html>

animate() - method is used to create custom animations.

<!DOCTYPE html>

<html>

<head>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.3/jquery.min.js"></script>

<script>

$(document).ready(function(){

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

$("div").animate({

height: 'toggle'

});

});

});

</script>

</head>

<body>

<button>Start Animation</button>

<div style="background:#98bf21;height:100px;width:100px;position:absolute;"></div>

</body>

</html>

**(3) How to create slider with animation?**

**Ans -**

jQuery has the following slide methods:

slideDown()

slideUp()

slideToggle()

slideDown() :

$("#flip").click(function(){

$("#panel").slideDown();

});

slideUp() :

$("#flip").click(function(){

$("#panel").slideUp();

});

slideToggle() :

$("#flip").click(function(){

$("#panel").slideToggle();

});