**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();**

**});**