**Assignment:5**

1. **What is JQuery?**

* jQuery is a fast, lightweight, and feature-rich JavaScript library that simplifies and enhances web development tasks, providing powerful utilities for DOM manipulation, event handling, AJAX requests, and animation effects.

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.
* For Example:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

<meta name="viewport" content="width=device-width, initial-scale=1.0" />

<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.6.4/jquery.min.js"></script>

<title>Document</title>

</head>

<body>

<p id="demo">Hey There!!!!</p>

<script>

// Applying CSS properties

$("#demo").css("color", "red");

$("#demo").css({ "font-size": "16px", "background-color": "yellow" });

</script>

</body>

</html>

* To add or remove a class using jQuery, you can use the .addClass() and .removeClass() methods.
* For Example:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

<meta name="viewport" content="width=device-width, initial-scale=1.0" />

<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.6.4/jquery.min.js"></script>

<title>Document</title>

</head>

<body>

<p id="demo">Hey There!!!!</p>

<script>

// Adding a class

$("#demo").addClass("highlight");

// Removing a class

$("#demo").removeClass("highlight");

</script>

</body>

</html>

* For jQuery animations, you can use methods like .fadeIn(), .fadeOut(), .slideDown(), .slideUp(), etc.
* For Example:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.6.4/jquery.min.js"></script>

<title>Document</title>

<style>

.two{

background-color: purple;

height: 50px;

width: 50px;

margin: 20px;

display: none;

}

</style>

</head>

<body>

<div class="two" id="one-1"></div>

<div class="two" id="one-2"></div>

<div class="two" id="one-3"></div>

<button>Click</button>

<script>

$(document).ready(function () {

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

// $("#one-1").fadeTo("slow",.5), $("#one-2").fadeTo("slow",.2), $("#one-3").fadeTo("slow",.2)

$("#one-1").fadeIn("slow",.5), $("#one-2").fadeIn("slow",.2), $("#one-3").fadeIn("slow",.2)

// $("#one-1").fadeOut("slow",.5), $("#one-2").fadeOut("slow",.2), $("#one-3").fadeOut("slow",.2)

// $("#one-1").fadeToggle("slow",.5), $("#one-2").fadeToggle("slow",.2), $("#one-3").fadeToggle("slow",.2)

})

})

</script>

</body>

</html>

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

* Code:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

<meta http-equiv="X-UA-Compatible" content="IE=edge" />

<meta name="viewport" content="width=device-width, initial-scale=1.0" />

<title>Document</title>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>

<!-- cycle.min.js -->

<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery.cycle2/2.1.6/jquery.cycle2.min.js"></script>

</head>

<body>

<div id="slide">

<img src="images/1.jpg" height="312px" width="450px" class="slider" />

<img src="images/2.jpg" height="312px" width="450px" class="slider" />

<img src="images/3.jpg" height="312px" width="450px" class="slider" />

</div>

<!-- slider apply here -->

<script type="text/javascript">

$(document).ready(function () {

$("#slide").cycle("fade");

$("#slide img").css("overflow-y", "hidden");

});

</script>

</body>

</html>