**Module: 5 (jquery basic, effects & advance)**

**1. What is jquery?**

**Ans.** Jquery is a fast, small, and feature-rich javascript library. It makes things like html document traversal and manipulation, event handling, animation, and ajax much simpler with an easy-to-use api that works across a multitude of browsers. With a combination of versatility and extensibility, jquery has changed the way that millions of people write javascript.

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

**Ans.**

**css using Jquery**

<!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://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>

    <script>

        $(document).ready(function()

        {

            $(".b1").click(function()

            {

                $("p").css("background-color","red")

                $("p").css("color","yellow")

            })

            $("div").click(function()

            {

            })

        })

    </script>

</head>

<body>

    <p>Please Change My color</p>

    <button class="b1">css</button>

    <button class="b2">Animation</button>

    <div></div>

</body>

</html>

**Add Class Remove Class**

<!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://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

    <script>

        $(document).ready(function()

        {

            $(".b1").click(function()

            {

                $("h1").addClass("class")

            })

            $(".b2").click(function()

            {

                $("h1").removeClass("class")

            })

        })

    </script>

    <style>

        .class

        {

            color: blue;

        }

    </style>

</head>

<body>

    <h1>

        Comapny Name

    </h1>

    <p>

        Lorem ipsum dolor, sit amet consectetur adipisicing elit. Quidem suscipit eius illum, impedit a culpa delectus ipsum eligendi adipisci, id harum quam, possimus ut eum consequuntur totam ab. Quibusdam, reiciendis?

    </p>

    <button class="b1">Add CSS</button>

    <button class="b2">Remove CSS</button>

</body>

</html>

**Jquery Animation**

<!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://ajax.googleapis.com/ajax/libs/jquery/3.6.1/jquery.min.js"></script>

    <style>

        div

        {

            height: 150px;

            width: 150px;

            background-color: blue;

            left: 50%;

            position: relative;

        }

    </style>

</head>

<body>

    <button>Left</button>

    <div>

    </div>

    <script>

        $(document).ready(function()

        {

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

            {

                $("div").animate({left:'50'});

            })

        })

    </script>

</body>

</html>

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

**Ans.**

<!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://malsup.github.io/jquery.cycle.all.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");

            });

        </scri

</body>

</html>

**3. Event bubbling tickling example**

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Example of Event Bubbling

1. <!DOCTYPE html**>**
2. **<html>**
3. **<head>**
4. **<meta** charset="utf-8"**>**
5. **<meta** name="viewport" content="width=device-width"**>**
6. **<title>**Event Bubbling**</title>**
7. **</head>**
8. **<body>**
9. **<div** id="p1"**>**
10. **<button** id="c1"**>**I am child button**</button>**
11. **</div>**
13. **<script>**
14. var parent = document.querySelector('#p1');
15. parent.addEventListener('click', function(){
16. console.log("Parent is invoked");
17. });
19. var child = document.querySelector('#c1');
20. child.addEventListener('click', function(){
21. console.log("Child is invoked");
22. });
23. **</script>**
24. **</body>**
25. **</html>**

**Example of Event Capturing**

1. <!DOCTYPE html**>**
2. **<html>**
3. **<head>**
4. **<meta** charset="utf-8"**>**
5. **<meta** name="viewport" content="width=device-width"**>**
6. **<title>**Event Capturing**</title>**
7. **</head>**
8. **<body>**
9. **<div** id="p1"**>**
10. **<button** id="c1"**>**I am Child**</button>**
11. **</div>**
13. **<script>**
14. var parent = document.querySelector('#p1');
15. var child = document.querySelector('#c1');
17. parent.addEventListener('click', function(){
18. console.log("Parent is invoked");
19. },true);
20. child.addEventListener('click', function(){
21. console.log("Child is invoked");
22. });
23. **</script>**
24. **</body>**
25. **</html>**