1. What is jQuery?

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.

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

CSS using JQuery:

<!DOCTYPE html>

<html>

<head>

    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.1/jquery.min.js">

    </script>

    <script>

        $(document).ready(function () {

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

                $("p").css("background-color", "yellow");

            });

        });

    </script>

</head>

<body>

    <h2>This is a heading</h2>

    <p style="background-color:#ff0000">This is a paragraph.</p>

    <p style="background-color:#00ff00">This is a paragraph.</p>

    <p style="background-color:#0000ff">This is a paragraph.</p>

    <p>This is a paragraph.</p>

    <button>Set background-color of p</button>

</body>

</html>

Add Class and Remove Class in JQuery

**addClass() method:** It is used to add specified classes to each of the targeted elements while animating all style changes

**removeClass() method:**It is used to remove the classes from the element while animating all style changes.

<!DOCTYPE html>

<html>

<head>

    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.1/jquery.min.js"></script>

    <script>

        $(document).ready(function () {

            $("btn1").click(function () {

                $("h1, h2, p").addClass("important blue");

            });

            $("btn2").click(function () {

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

            });

        });

    </script>

    <style>

        .important {

            font-weight: bold;

            font-size: xx-large;

        }

        .blue {

            color: blue;

        }

    </style>

</head>

<body>

    <h1>Heading 1</h1>

    <h2>Heading 2</h2>

    <p>This is a paragraph.</p>

    <p>This is another paragraph.</p>

    <div>This is some important text!</div><br>

    <button id=”btn1”>Add classes to elements</button>

    <button id=”btn2”>Remove class to elements</button>

</body>

</html>

JQuery Animation:

<!DOCTYPE html>

<html>

<head>

    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.1/jquery.min.js"></script>

    <script>

        $(document).ready(function () {

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

                $("div").animate({ left: '250px' });

            });

        });

    </script>

</head>

<body>

    <button>Start Animation</button>

    <p>By default, all HTML elements have a static position, and cannot be moved. To manipulate the position, remember

        to first set the CSS position property of the element to relative, fixed, or absolute!</p>

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

</body>

</html>

3. How to create slider with animation?

Sliding Methods

With jQuery you can create a sliding effect on elements.

jQuery has the following slide methods:

slideDown()

slideUp()

slideToggle()

<!DOCTYPE html>

<html>

<head>

    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.1/jquery.min.js"></script>

    <script>

        $(document).ready(function () {

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

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

            });

            /\* $("#flip").click(function(){

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

                }); \*/

            /\* $("#flip").click(function(){

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

            });\*/

        });

    </script>

    <style>

        #panel,

        #flip {

            padding: 5px;

            text-align: center;

            background-color: #e5eecc;

            border: solid 1px #c3c3c3;

        }

        #panel {

            padding: 50px;

        }

    </style>

</head>

<body>

    <div id="flip">Click to slide up panel</div>

    <div id="panel">Hello world!</div>

    /\* <div id="flip">Click to slide down panel</div>

    <div id="panel">Hello world!</div> \*/

    /\* <div id="flip">Click to slide the panel down or up</div>

    <div id="panel">Hello world!</div>

    \*/

</body>

</html>