**Assignment**

**Jquery**

**Que1.** 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.

**Que2.** How to Apply CSS Using JQuery, How to Add Class and Remove Class inJQuery, JQuery Animation?**Ans.** It is possible to change the CSS property of an element by using a simple JavaScript API, but we try to complete this challenge using jQuery css() method.

**Syntax:** $().css(propertyname, value);

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

**Syntax:** .addClass(className, [duration], [easing], [callback])

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

**Syntax:** .removeClass(className, [duration], [easing], [callback])

**Que3.** How to create slider with animation?**Ans.**



<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Document</title>

    <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.7.1/jquery.min.js" integrity="sha512-v2CJ7UaYy4JwqLDIrZUI/4hqeoQieOmAZNXBeQyjo21dadnwR+8ZaIJVT8EE2iyI61OV8e6M8PP2/4hpQINQ/g==" crossorigin="anonymous" referrerpolicy="no-referrer"></script>

</head>

<body>

    <style>

        \* {box-sizing: border-box}

        body {font-family: Verdana, sans-serif; margin:0}

        .mySlides {display: none}

        img {vertical-align: middle;}

        .slideshow-container {

          max-width: 1000px;

          position: relative;

          margin: auto;

        }

        .prev, .next {

          cursor: pointer;

          position: absolute;

          top: 50%;

          width: auto;

          padding: 16px;

          margin-top: -22px;

          color: white;

          font-weight: bold;

          font-size: 18px;

          transition: 0.6s ease;

          border-radius: 0 3px 3px 0;

          user-select: none;

        }

        .next {

          right: 0;

          border-radius: 3px 0 0 3px;

        }

        .prev:hover, .next:hover {

          background-color: rgba(0,0,0,0.8);

        }

        .text {

          color: #f2f2f2;

          font-size: 15px;

          padding: 8px 12px;

          position: absolute;

          bottom: 8px;

          width: 100%;

          text-align: center;

        }

        .numbertext {

          color: #f2f2f2;

          font-size: 12px;

          padding: 8px 12px;

          position: absolute;

          top: 0;

        }

        .dot {

          cursor: pointer;

          height: 15px;

          width: 15px;

          margin: 0 2px;

          background-color: #bbb;

          border-radius: 50%;

          display: inline-block;

          transition: background-color 0.6s ease;

        }

        .active, .dot:hover {

          background-color: #717171;

        }

        .fade {

          animation-name: fade;

          animation-duration: 1.5s;

        }

        @keyframes fade {

          from {opacity: .4}

          to {opacity: 1}

        }

        @media only screen and (max-width: 300px) {

          .prev, .next,.text {font-size: 11px}

        }

        </style>

        </head>

        <body>

        <div class="slideshow-container">

        <div class="mySlides fade">

          <div class="numbertext">1 / 3</div>

          <img src="c1.jpeg" style="width:100%">

          <div class="text">Caption Text</div>

        </div>

        <div class="mySlides fade">

          <div class="numbertext">2 / 3</div>

          <img src="c2.webp" style="width:100%">

          <div class="text">Caption Two</div>

        </div>

        <div class="mySlides fade">

          <div class="numbertext">3 / 3</div>

          <img src="c3.jpg" style="width:100%">

          <div class="text">Caption Three</div>

        </div>

        <a class="prev" onclick="plusSlides(-1)">❮</a>

        <a class="next" onclick="plusSlides(1)">❯</a>

        </div>

        <br>

        <div style="text-align:center">

          <span class="dot" onclick="currentSlide(1)"></span>

          <span class="dot" onclick="currentSlide(2)"></span>

          <span class="dot" onclick="currentSlide(3)"></span>

        </div>

        <script>

        let slideIndex = 1;

        showSlides(slideIndex);

        function plusSlides(n) {

          showSlides(slideIndex += n);

        }

        function currentSlide(n) {

          showSlides(slideIndex = n);

        }

        function showSlides(n) {

          let i;

          let slides = document.getElementsByClassName("mySlides");

          let dots = document.getElementsByClassName("dot");

          if (n > slides.length) {slideIndex = 1}

          if (n < 1) {slideIndex = slides.length}

          for (i = 0; i < slides.length; i++) {

            slides[i].style.display = "none";

          }

          for (i = 0; i < dots.length; i++) {

            dots[i].className = dots[i].className.replace(" active", "");

          }

          slides[slideIndex-1].style.display = "block";

          dots[slideIndex-1].className += " active";

        }

        </script>

    </body>