**Question-1: What is JQuery?**

Answer.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.

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

Answer.

=>How to Apply CSS Using JQuery

jQuery css() Method

The css() method sets or returns one or more style properties for the selected elements.

Return a CSS Property

To return the value of a specified CSS property, use the following syntax:css("propertyname");

=>How to Add Class and Remove Class in JQuery

addClass() - Adds one or more classes to the selected elements

removeClass() - Removes one or more classes from the selected elements

toggleClass() - Toggles between adding/removing classes from the selected elements

css() - Sets or returns the style attribute

=>JQuery Animation

jQuery Animations - The animate() Method

The jQuery animate() method is used to create custom animations.

Syntax:$(selector).animate({params},speed,callback);

The required params parameter defines the CSS properties to be animated.

The optional speed parameter specifies the duration of the effect. It can take the following values: "slow", "fast", or milliseconds.

The optional callback parameter is a function to be executed after the animation completes.

**Question-3:How to create slider with animation?**

Answer.Learn how to create a responsive slideshow with CSS and JavaScript.

Slideshow / Carousel

A slideshow is used to cycle through elements:

1 / 4Caption Text

Create A Slideshow

Step 1) Add HTML:

Example

<!-- Slideshow container -->

<div class="slideshow-container">

<!-- Full-width images with number and caption text -->

<div class="mySlides fade">

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

<img src="img1.jpg" style="width:100%">

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

</div>

<div class="mySlides fade">

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

<img src="img2.jpg" style="width:100%">

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

</div>

<div class="mySlides fade">

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

<img src="img3.jpg" style="width:100%">

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

</div>

<!-- Next and previous buttons -->

<a class="prev" onclick="plusSlides(-1)">&#10094;</a>

<a class="next" onclick="plusSlides(1)">&#10095;</a>

</div>

<br>

<!-- The dots/circles -->

<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>

Step 2) Add CSS:

Style the next and previous buttons, the caption text and the dots:

Example

\* {box-sizing:border-box}

/\* Slideshow container \*/

.slideshow-container {

max-width: 1000px;

position: relative;

margin: auto;

}

/\* Hide the images by default \*/

.mySlides {

display: none;

}

/\* Next & previous buttons \*/

.prev, .next {

cursor: pointer;

position: absolute;

top: 50%;

width: auto;

margin-top: -22px;

padding: 16px;

color: white;

font-weight: bold;

font-size: 18px;

transition: 0.6s ease;

border-radius: 0 3px 3px 0;

user-select: none;

}

/\* Position the "next button" to the right \*/

.next {

right: 0;

border-radius: 3px 0 0 3px;

}

/\* On hover, add a black background color with a little bit see-through \*/

.prev:hover, .next:hover {

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

}

/\* Caption text \*/

.text {

color: #f2f2f2;

font-size: 15px;

padding: 8px 12px;

position: absolute;

bottom: 8px;

width: 100%;

text-align: center;

}

/\* Number text (1/3 etc) \*/

.numbertext {

color: #f2f2f2;

font-size: 12px;

padding: 8px 12px;

position: absolute;

top: 0;

}

/\* The dots/bullets/indicators \*/

.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;

}

/\* Fading animation \*/

.fade {

animation-name: fade;

animation-duration: 1.5s;

}

@keyframes fade {

from {opacity: .4}

to {opacity: 1}

}

Step 3) Add JavaScript:

Example

let slideIndex = 1;

showSlides(slideIndex);

// Next/previous controls

function plusSlides(n) {

showSlides(slideIndex += n);

}

// Thumbnail image controls

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";

}

Automatic Slideshow

To display an automatic slideshow, use the following code:

Example

let slideIndex = 0;

showSlides();

function showSlides() {

let i;

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

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

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

}

slideIndex++;

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

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

setTimeout(showSlides, 2000); // Change image every 2 seconds

}

**Question-4:** **Event bubbling tickling example?**

Answer:

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://cdnjs.cloudflare.com/ajax/libs/jquery/3.7.0/jquery.min.js" integrity="sha512-3gJwYpMe3QewGELv8k/BX9vcqhryRdzRMxVfq6ngyWXwo03GFEzjsUm8Q7RZcHPHksttq7/GFoxjCVUjkjvPdw==" crossorigin="anonymous" referrerpolicy="no-referrer"></script>

    <style>

        .main \*

        {

            border:3px solid gray;

            padding: 25px;

            display: block;

        }

    </style>

</head>

<body>

    <div class="main">

        <div class="gp">

            grandParent

            <ul>UL

                <li>LI

                    <span>SPAN</span>

                </li>

            </ul>

        </div>

    </div>

    <script>

        $('span').parents().css("border","3px solid red");

        //$('span').parent().css("border","3px solid red");

        //$('span').parentsUntil('.main').css("border","3px solid red");

        //$('.gp').children().css("border","3px solid red");

        //$('.gp').find('ul').css("background","lightcoral");

        //$('.gp').find('li').css("background","lightblue");

        //$('.gp').find('span').css("background","pink")

    </script>

</body>

</html>

Output:

