1. **What is JQuery?**

**Ans.** JQuery is a javascript library.

* provide sliders library.
* inbuilt functions.
* feature rich library.
* used cdn or download offline package .

**Syntax :**

$(document).ready(function(){

$("selector").event(function(){

$("selector").jQuery\_function();

})

})

$ => means it is jquery code

=> selector => class, id, element, group, universal, decendent selector.

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

**Ans.** The **css() method** in **jQuery** is used to change the style property of the selected element. This method can be used in different ways. The css() method can be used to get/return the present value of the property for the selected element.

**Syntax:**

$(selector).css(property)

or

$(selector).css(property, value)

or

$(selector).css(property, function(index, currentvalue))

or

$(selector).css({property:value, property:value, ...})

**Return value:** It will return the value of the property for the selected element.

* The [addClass()](https://www.geeksforgeeks.org/jquery-addclass-with-examples/)or[removeClass()](https://www.geeksforgeeks.org/jquery-removeclass-with-examples/)methods are used to add the CSS classes when there is a need to add to our webpage when there is some event listener or to create some kind of effect.

In this article, let us see how can we add a CSS class or remove a CSS class in jQuery.

**Syntax:**

* **Adding a class:**

$('selector').addClass(class\_name);

* **Removing a class:**

$('selector').removeClass(class\_name);

* The **animate() method** is an inbuilt method in [jQuery](https://www.geeksforgeeks.org/jquery/) which is used to **change the state of the element with CSS style**. This method can also be used to change the CSS property to create the animated effect for the selected element.

**Syntax:**

(selector).animate({styles}, para1, para2, para3);

Here “selector” is the selected element.

**Parameter:** It accepts four parameters which are specified below-

* **Styles:** It helps to set the new CSS property.
* **para1:** It is an optional parameter and is used to set the speed of the parameter and its default value is 400 milliseconds.
* **para2:** It is optional and this specifies the speed of the element at different positions.
* **para3:** It is an optional function that is used to be performed after the animation is complete.

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

**Ans.** Here's a step-by-step guide on how to create a simple slider with jQuery:-

**1. Include jQuery:**

First, make sure you include the jQuery library in your HTML file. You can either download it and host it locally or include it from a content delivery network (CDN):

```html

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

```

**2. HTML Structure:**

Create the HTML structure for your slider. Similar to the previous example, you'll need a container for the slider and individual slides:

```html

<div class="slider">

<div class="slide">Slide 1</div>

<div class="slide">Slide 2</div>

<div class="slide">Slide 3</div>

</div>

```

**3. CSS Styling:**

Style your slider and individual slides using CSS, just like in the previous example.

**4. jQuery Animation:**

Use jQuery to handle the animation of the slider. In this example, we'll animate the sliding effect:

```javascript

$(document).ready(function () {

const $slider = $('.slider');

const $slides = $('.slide');

let currentIndex = 0;

function goToSlide(index) {

$slider.animate({ left: -index \* 100 + '%' }, 500);

}

function nextSlide() {

currentIndex = (currentIndex + 1) % $slides.length;

goToSlide(currentIndex);

}

function prevSlide() {

currentIndex = (currentIndex - 1 + $slides.length) % $slides.length;

goToSlide(currentIndex);

}

// Add event listeners to buttons or other navigation elements

$('#prevButton').click(prevSlide);

$('#nextButton').click(nextSlide);

// Start the slider at the first slide

goToSlide(currentIndex);

});

```

**5. HTML Buttons for Navigation:**

Create buttons or other navigation elements in your HTML to allow users to control the slider, similar to the previous example.

```html

<button id="prevButton">Previous</button>

<button id="nextButton">Next</button>

```

1. **Testing:**

Test your slider in a web browser. Clicking the "Previous" and "Next" buttons should smoothly transition between slides using jQuery animations.