1. **What is jQuery ?**

jQuery is a JavaScript library that makes it easier to write code for websites by simplifying tasks like selecting elements, handling events, and animating content. It's widely used for its simplicity and cross-browser compatibility.

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

To apply CSS using jQuery, you use the `.css()` method. For adding or removing classes, you use `.addClass()` and `.removeClass()`. For animations, jQuery provides methods like `.fadeIn()`, `.fadeOut()`, and `.animate()`.

Ex:- Change text color to red

$('#myElement').css('color', 'red');

Add a class

$('#myElement').addClass('highlight');

Remove a class

$('#myElement').removeClass('highlight');

Fade in animation

$('#myElement').fadeIn('slow');

Slide up animation

$('#myElement').slideUp('fast');

**(3) How to create slider with animation?**

**jQuery UI provides us a slider control through the slider widget. Slider helps us to get a certain value using a given range. The *animate* option when set to *true* will create an animation effect when you directly click at any point on the slider’s axis**

**Syntax:**

**$(".selector").slider(**

**{ animate: value }**

**);**

