1. What is jQuery?

jQuery is a popular open-source JavaScript library full of pre-built code solutions that make it much easier to use JavaScript on your website.

- 2. How to Apply CSS Using JQuery, How to Add Class and Remove Class in Jquery, JQuery Animation?
 - You can apply CSS styles to HTML elements using jQuery's css() method.

```
<!DOCTYPE html>
<html>
<head>
 <script src="
https://cdnjs.cloudflare.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
</head>
<body>
 <div id="myDiv">This is a div element</div>
 <script>
  $(document).ready(function() {
   // Apply CSS styles to the element with the id 'myDiv'
   $("#myDiv").css({
     "color": "blue",
    "font-size": "24px".
     "background-color": "yellow"
   });
  });
 </script>
</body>
</html>
  Adding and Removing Classes Using jQuery
   <!DOCTYPE html>
   <html>
```

// Animate the element's left margin to 200px over 2 seconds

3. How to create slider with animation?

\$(document).ready(function() {

\$("#myDiv").animate({ marginLeft: "200px"

Index.html File:

<script>

}, 2000);

});
</script>
</body>
</html>

Javascript file:

```
// Stider.js

$(document).ready(function() {
    // Initialize variables
    var currentSlide = 0;
    var slides = $('.slide');
    var slideCount = slides.length;

// Function to show a specific stide
    function showSlide(index) {
        slides.eq(currentSlide).fadeOut();
        slides.eq(index).fadeIn();
        currentSlide = index;
    }

// Start the stideshow
showSlide(0);

// Automatic stideshow
var interval = setInterval(function() {
        var nextSlide = (currentSlide + 1) % slideCount;
        showSlide(nextSlide);
    }, 3000); // Change stide every 3 seconds (adjust as needed)
};
});
```

4. Event bubbling tickling example

```
<!DOCTYPE html>
<html lang="en">
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <title>Document</title>
        <script stc="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
   </head>
                 <1i>>
                      <span>span</span>
             </div>
             $(document).ready(function () {
                 $("span").parents().css({ "border": "2px solid red" ,"padding":"20px" })
$("span").css({ "border": "2px solid grey", "padding":"5px 500px" })
            3)
        </script>
24 </body>
26 </html>
```

Output:

