

1) What is jQuery ?

Ans:

⇒ jQuery is a popular JavaScript library that simplifies the manipulation of HTML, CSS, and JavaScript on web pages. It provides a variety of functions and methods for selecting, manipulating, and animating HTML elements, handling events, making Ajax requests, and more.

jQuery is known for its easy-to-use syntax and its ability to make complex JavaScript tasks simpler and more manageable.

jQuery is a small, fast and lightweight JavaScript library.

jQuery is platform-independent.

jQuery means "write less do more".

jQuery simplifies AJAX call and DOM manipulation.

- jQuery Features :

HTML manipulation

DOM manipulation

DOM element selection

CSS manipulation

Effects and Animations

2) How to Apply CSS Using JQuery, How to Add Class and Remove Class in JQuery, JQuery Animation?

Ans :

⇒ Applying CSS using jQuery is a breeze. You can use the `css()` method to set styles. Here's a simple example:

```
// Apply CSS using jQuery
$(document).ready(function(){
    $("p").css("background-color", "red");
});
```

⇒ To add and remove classes, you can use the `addClass()` and `removeClass()` methods:

```
// Add and remove classes using jQuery
$(document).ready(function(){
    $("button").click(function(){
        $("p").addClass("myClass");
    });
```

```
// Remove a class
$("button").click(function(){
    $("p").removeClass("myClass"); });
```

⇒ For animations, jQuery provides the `animate()` method. Here's a simple example of fading in an element:

```
// jQuery animation example
$(document).ready(function(){
    $("button").click(function(){
        $("p").animate({opacity: 1}, 1000);
    });
});
```

3) How to create slider with animation?

Ans:

⇒ Creating a slider with animation using jQuery involves manipulating the position of elements and using animations to transition between them. Here's a basic example of a simple image slider:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-
width, initial-scale=1.0">
```

```
<title>Image Slider</title>
<style>
  #slider-container {
    width: 400px;
    overflow: hidden;
  }

  #slider {
    display: flex;
    transition: transform 0.5s ease-in-out;
  }

  .slide {
    width: 400px;
  }
</style>
</head>
<body>

<div id="slider-container">
  <div id="slider">
    <div class="slide"></div>
```

```
<div class="slide"></div>
```

```
<div class="slide"></div>
```

```
</div>
```

```
</div>
```

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

```
<script>
```

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

```
    var slideIndex = 0;
```

```
    function showSlide(index) {
```

```
        var slideWidth = $('.slide').width();
```

```
        $('#slider').css('transform', 'translateX(' + (-
slideWidth * index) + 'px)');
```

```
    }
```

```
    function nextSlide() {
```

```
        slideIndex = (slideIndex + 1) % $('.slide').length;
```

```
        showSlide(slideIndex);
```

```
    }
```

```

function prevSlide() {
    slideIndex = (slideIndex - 1 + $('.slide').length) %
$('.slide').length;
    showSlide(slideIndex);
}

// Set interval for automatic sliding
setInterval(nextSlide, 3000);

// Click events for next and previous buttons
$('#nextBtn').on('click', nextSlide);
$('#prevBtn').on('click', prevSlide);
});
</script>

</body>
</html>

```

4)Event bubbling tickling example ?

Ans:

⇒ <!DOCTYPE html>

<html lang="en">

<head>

```
<meta charset="UTF-8">
<meta name="viewport" content="width=device-
width, initial-scale=1.0">
<title>Event Bubbling Example</title>
<style>
  div {
    padding: 20px;
    margin: 10px;
    border: 1px solid black;
  }
</style>
</head>
<body>

<div id="parentDiv">
  <div id="childDiv">
    Click me!
  </div>
</div>

<script>
```

```
document.getElementById('parentDiv').addEventListener('click', function() {  
    alert('Parent div clicked!');  
});
```

```
document.getElementById('childDiv').addEventListener('click', function() {  
    alert('Child div clicked!');  
});
```

```
</script>
```

```
</body>
```

```
</html>
```