jQuery Assigment

Q-1 What is jQuery?

- jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers.

-DOM Manipulation: jQuery simplifies the process of selecting DOM elements and performing actions on them, like changing their content, style, or position on the page.

Event Handling: It provides an efficient way to handle events, such as user interactions like clicks, mouse movements, key presses, etc.

Ajax: jQuery has methods to facilitate asynchronous HTTP requests, allowing you to update parts of a web page without reloading the entire page.

Animations: Creating animations and effects on web pages becomes easier with jQuery. It offers methods to animate elements or add predefined effects.

Cross-browser Compatibility: One of the key benefits of jQuery is that it handles the differences in how various browsers implement JavaScript, providing a consistent experience for developers.

Q-2 How to Apply CSS Using JQuery, How to Add Class and Remove Class in Jquery ,JQuery Animation?

-.css():

This method can get or set one or more CSS properties for selected elements.

Example of setting CSS properties:

$(element).css("color", "red");

--addClass():

Adds one or more class names to selected elements.

Example:

$(element).addClass("new-class");

--.removeClass():

Removes one or more class names from selected elements.

Example:

$(element).removeClass("old-class");

---jQuery Animation:

animate():

Animates the CSS properties of elements.

Example:

$(element).animate({

    opacity: 0.5,

    left: '+=50',

    height: 'toggle'

}, 1000);

Q-3 How to create slider with animation?

- Creating a slider with animation typically involves using HTML, CSS, and JavaScript/jQuery. Here's a basic example of creating a simple image slider with jQuery animation:

Html Structure

<div class="slider">

```html
<div class="slides">
    <div class="slide"><img src="image1.jpg" alt="Slide 1"></div>
    <div class="slide"><img src="image2.jpg" alt="Slide 2"></div>
    <div class="slide"><img src="image3.jpg" alt="Slide 3"></div>
</div>
</div>
```

--CSS

```css
.slider {
    width: 100%;
    overflow: hidden;
}
.slides {
    display: flex; /* Flexbox for horizontal arrangement */
    transition: transform 0.5s ease; /* Animation transition */
}
.slide {
    flex: 0 0 100%; /* Each slide takes full width */
}
img {
    width: 100%; /* Ensure images fill their containers */
}
```

javascript(jquary)

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

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

    var $slides = $('.slides');

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

    var slideCount = $('.slide').length;

    var currentSlide = 1;

    // Set width of slides container to accommodate all slides

    $slides.width(slideWidth * slideCount);

    // Previous button click

    $('.prev').click(function() {

        if (currentSlide > 1) {

            currentSlide--;

            moveSlider();

        }

    });

    // Next button click

    $('.next').click(function() {

        if (currentSlide < slideCount) {

            currentSlide++;

            moveSlider();

        }

    });
```

```
// Function to move the slider

function moveSlider() {

        var slidePosition = (currentSlide - 1) * -slideWidth;

        $slides.animate({ left: slidePosition }, 500);

}

});
```