

WD-ASSIGNMENT(4)

MODULE: 5 (jQuery Basic, Effects & Advance)

Q1. What is jQuery?

A1. jQuery is a lightweight, "write less, do more", JavaScript library.

The purpose of jQuery is to make it much easier to use JavaScript on your website.

jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.

jQuery also simplifies a lot of the complicated things from JavaScript, like AJAX calls and DOM manipulation.

The jQuery library contains the following features:

- HTML/DOM manipulation
- CSS manipulation
- HTML event methods
- Effects and animations
- AJAX
- Utilities

In addition, jQuery has plugins for almost any task out there.

Q2. How to Apply CSS Using jQuery, How to Add Class and Remove Class in jQuery, jQuery Animation?

A1. **jQuery Manipulating CSS** jQuery has several methods for CSS manipulation.

- `addClass()` - Adds one or more classes to the selected elements
- `removeClass()` - Removes one or more classes from the selected elements
- `toggleClass()` - Toggles between adding/removing classes from the selected elements
- `css()` - Sets or returns the style attribute

jQuery Animations - The `animate()` Method

The jQuery animate() method is used to create custom animations.

Syntax:

```
$(selector).animate({params},speed,callback);
```

The required params parameter defines the CSS properties to be animated.

The optional speed parameter specifies the duration of the effect. It can take the following values: "slow", "fast", or milliseconds.

The optional callback parameter is a function to be executed after the animation completes.

The following example demonstrates a simple use of the animate() method; it moves a <div> element to the right, until it has reached a left property of 250px:

Example

```
$("button").click(function(){  
    $("div").animate({left: '250px'}); });
```

Q3. How to create slider with animation?

jQuery Sliding Methods

With jQuery you can create a sliding effect on elements.

jQuery has the following slide methods:

- slideDown()
- slideUp()
- slideToggle()