**Module – 5(JQuery Basic, Effects & Advance)**

**1.What is JQuery?**

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

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

**2.How to apply CSS using JQuery, How to Add Class and Remove Class in JQuery, JQuery animation?**

**Applying CSS through JQuery**

Css can be add by using css() method in Jquery. The css() method sets or returns one or more style properties for the selected elements. In order to set the css property, use the following syntax:

css("*propertyname*","*value*");

**adding class using Jquery**

The addClass() method adds one or more class names to the selected elements.

This method does not remove existing class attributes, it only adds one or more class names to the class attribute.

**Tip:** To add more than one class, separate the class names with spaces.

$(*selector*).addClass(*classname*,function(*index,currentclass*))

**Removing class using JQuery**

The removeClass() method removes one or more class names from the selected elements.

**Note:** If no parameter is specified, this method will remove ALL class names from the selected elements.

$(*selector*).removeClass(*classname*,function*(index,currentclass)*)

**JQuery animation**

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:

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

**3.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()

**jQuery slideDown() Method**

The jQuery slideDown() method is used to slide down an element.

**Syntax:**

$(*selector*).slideDown(*speed,callback*);

* 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 sliding completes.

**jQuery slideUp() Method**

The jQuery slideUp() method is used to slide up an element.

**Syntax:**

$(*selector*).slideUp(*speed,callback*);

* 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 sliding completes.

**jQuery slideToggle() Method**

The jQuery slideToggle() method toggles between the slideDown() and slideUp() methods.

If the elements have been slid down, slideToggle() will slide them up.

If the elements have been slid up, slideToggle() will slide them down.

$(*selector*).slideToggle(*speed,callback*);

The optional speed parameter can take the following values: "slow", "fast", milliseconds.The optional callback parameter is a function to be executed after the sliding completes.