**MODULE: 5**

**(JQuery Basic, Effects & Advance)**

* **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**
* **How to Apply CSS Using JQuery, How to Add Class and Remove Class in JQuery, JQuery Animation?**
* **Add Class () method: It is used to add specified classes to each of the targeted elements while animating all style changes.**
* **Syntax:**

**addClass (className, [duration], [easing], [callback])**

* **Remove Class () method: It is used to remove the classes from the element while animating all style changes.**
* **Syntax:**

**removeClass(className, [duration], [easing], [callback])**

* **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.**

**For Example:**

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

* **How to create slider with animation?**
* **This post will go through a common animation effect - slide animations. This includes slide from left to right, right to left, slide up and down animations.**
* **To make a slide animation, the basic steps are:**
* **Create the HTML with a container div and the slider div.**
* **In the CSS, set the slider to be offscreen by setting it with a negative left (Ex -100px)**
* **We then trigger the slide by using transition CSS property and set the left to be 0px;**