**JQuery**  is a javascript library. This is used to make it much easier to use js on your websites.

**Advantage**

JQery is lightweight, wrire less, do mor.

JQery is a fast and concise library.

Jquery library means: ritten no. of javascript functions in single .js file called jquery library.

Difference b/w js and jquery:

**Js** is scripting language that was designed to use within a webbrowser.

**Js** is used for interface interactions, slide downs, slideshows and other interactive components are typically done by using js.

**Jquery** is simply a specific library of javascript .

**JQuery features:**

1. Html DOM manipulation
2. Css manipulation
3. HTML event method
4. Effects & animatons
5. **Ajax** : using Ajax we can interact with database. Like to save the data in db and to read data from db.
6. We need to download jqery library from jquery.com website.

**Jquery syntax:**

$(selector).action();

$defines jquery

(selector) :to find out html elements.

Action() to be performed on he html element

**$(document).ready(function(){}); :** This is to prevent code from running before documents is finished loading we need to wait for the document to be fully loaded and ready before working with it.

**jQuery selectors:**

1.**element selector:** this selector selects elements based on the element

2**.Id selector:** selector selects elements based on the element Id

Syntax: $(“#”).action();

3**.class selector:** selector selects elements based on the specific class to find elements with a specific class use period character,followed by class name

$(“.myclass).action();

4.$(“\* this is used for selects all elements in html doc”)

5. (this) : select the current html doc.

$(“div.myclass”) : selects all div elements in html doc with class name

**Jquery events:** jquery events works like js events. When we click on any button we can execute js function

**Click:** this method attaches event handler to html

**Dbclick :** execute jquery function when ever you double clicked on the element

**Mouseenter:** execute function when mouse pointer enters on html element

**Mouseleave:**

**Onchange**

**Focus & blur methods :**

**Focus :** this event attaches an event handler function to an html form field (i.e., textbox) this method execute function when the form field gets focused.

**Blur:** this function is excuted when the form field loses focus

**JQuery effects:**

we have 2 effects to hide or show html elements.

1.hide() : hides an html elements

2,show() : show an hidden html element

**Jquery fading effects:**

Using jquery we can fade elements in & out of visibility

**1.fadeIn():** this method is used to fadein a hidden element

**Syntax:**

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

Speed parameter specifies the duration of the effects.takes the value like (slow,fast,millisecond)

Callback : is optional parameter and this is a function to be executed after the fading effects completes

**2.fadeOut():**this method is used to fadeout a visible element

**3.fadeToggle():**this method toggles b/w the fadeIn & fadeOut

**4.fadeTo():**this method fading to given opacity.

**JQery sliding Methods:** using jquery sliding effects we can create sliding effects on html elements

1.**slideDown() :** this method is used to slide down an html element

2.**slideUp()**

3.**slideToggle():** this method toggles between slideup and slidedown if element has been slidedown,slideToggle method will slideup them.if the

**JQuery Changing Method :** this chnnging concept errors has to run multiple JQuery methods with in a single statement

Ex: $(“div”).slideUp(4000).slideDown(400);

**Dom manipulation in JQuery:**

Dom manipulation allows us to manipulate the DOM i.e., read or write text to the html elements. We can se dom mentods.

We have 3 dom 3 methods:

1. Text() : read or writ the text content of selected elemet

Ex: <div> samle text</div> $(“div”).text(“content”);

1. Html() : read or write the text ontent of selected element including html markup tags

Ex:<div> this is sample<span>text</span>content </div>

1. Val() : read or write

**Jquery Addin element:**

1.append()

2.prepend

3.after()

4.before()

JQuery css manipulation:

1.addClass :we can add css class to an selected html eleemnts

2.removeClass: we can remove css class to an selected html elements

3.toggleClass :toggle b/w adding removing

4.css