

JQuery

Class notes


By

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JQuery

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Write lesscode, Do more.

What is jquery?

- ⇒ jquery is a JavaScript library
- ⇒ Main moto of jquery is "Write less, Do More" principle
- ⇒ jquery makes designed for client side programming
- ⇒ jquery makes client side programming easy by providing pre-defined functions
- ⇒ jquery is open source library so that any one can use in their website developement
- ⇒ jquery is developed by Mr. John Resig in year 2007.
- ⇒ He is the creature and developer of jquery library
- ⇒ Note. ⇒ jquery developed using JavaScript.
- ⇒ jquery is not replacement of JavaScript.
- It makes JavaScript Programing easy

JQuery libraey:-

jquery libraries are available in two seperate modes:

1. jquery-3.1.0.min.js (Comprased)
2. jquery-3.1.0.js (UnComprased)

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How to Integrate jquery in web pages?

- ⇒ Implements the following steps to integrate jquery in our web page.

Step 1: Download jquery library

- Go to www.jquery.com website
- Download jquery library ⇒ jquery-3.1.0.js

Step 2: → Import jquery in your webpage.

→ Import jquery File by using `<script>` tag as Follow.

```
<script src = "jquery-3.1.0.js">  
</script>
```

Note:- we can include jquery in any of the web pages: *.html, *.jsp, *.aspx, *.cshtml, *.php.

jQuery Features :-

The features provided by jquery are,

1) Light Weight.

jquery library file (*.js) size is less than 100 KB.

Due to this less size,

- Easy to download from server to browser
- Easy to download into memory
- Faster in Execution

2) CSS3 Complaint

jquery support CSS3 Features

we can apply CSS3 style properties by applying using jquery functions

ex:- `css ("prop", "value");`
`css ("color", "Blue");`

→ This feature is called "CSS3 Complaint".

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3. cross browser.

- ⇒ jquery library are browser independent, i.e. they are work in all browser
- ⇒ This feature is called "cross browser support."
- ⇒ Ex: IE, chrome, Mozilla, Firefox, Opera, etc..

4. DOM Traversing.

- ⇒ Dom stands for Document Object Model.
- ⇒ Dom traversing is used to access the reference of the html element at runtime
- ⇒ So that we can access the members of the objects to perform desired operation
- ⇒ we can easily access Dom obj by using 'jquery fn'

Eg: `Selectors()`, `each()`, `eq()`:

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5. DOM Manipulations

- ⇒ we can update the DOM structure at runtime to perform dynamic manipulations

Eg:- Adding / Removing rows of html table.

- ⇒ jquery provides pre-defined functions to implement these kind of modifications

Eg: `append()`, `remove()`, `empty()`, `attr()`

6. AJAX Support in jquery:-

- ⇒ Ajax implementation is one of the primary requirement in client side programming.
- ⇒ Most of the websites are using Ajax in website development

⇒ To implement ajax with regular java script is more complex

⇒ jquery provides built-in functions to implement ajax programming easily.

Eg: \$.ajax().

7. Effects in jquery.

⇒ we can apply different types effects on html elements

⇒ It provides more richness to your web pages

⇒ Most of the web sites are using different types of effects on image slide shows.

⇒ All these effects can be easily implemented with jquery effects.

eg: effect(), animate(), etc..

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Basics of Java Script Programming.

- ⇒ Java Script is a scripting lang used for client side programming in web Pages.
- ⇒ Java Script is light-weight and case-sensitive
- ⇒ Control structure and operators are same as C/C++/Java lang.
- ⇒ Browser Understand only Javascript as client side programming

Programming Rule of JavaScript

we should understand the following important rules to develop JavaScript Programming

1. Include JavaScript in web Page.
we can include the javascript in web page either directly or indirectly.

Directly:

```
<script>
    // java script code here.
</script>
```

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Indirectly:

```
<script src = "myscript.js">
</script>
```

Note:- <script> tag can be added in any section of html document. (either head or body)

2. Accessing references of HTML element

⇒ At runtime all elements of html tags exist as object in memory

⇒ We can get the reference of any obj by using "document.getElementById()" Function

⇒ Usage:

```
Var obj = document.getElementById("id");
```

Note: Once we get the reference, we can access the details of that Html obj like value, text, attribute, etc...

3. Creating Variables

⇒ JavaScript variables are declared with "var" keyword

⇒ These types of variable are called Dynamic typing Variables

⇒ It will change the behaviour based on the value that we store in it

Example:

```
Var a = 100;
```

```
Var str = "Hello World";
```

```
Var arr = [10, 20, 30, 40];
```

```
Var obj = { sid: 125,  
            snm: "Scott" };
```

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4. Numeric Conversion

⇒ By default all html controls return the value in String format.

⇒ To perform numeric operations we need to convert string formatted data into numeric data.

⇒ JavaScript provides two built-in functions to do this conversion:

1. parseInt()
2. parseFloat()

Eg :-

```
Var x = parseInt(Obj.Value);
```

⇒ obj is reference of text box.

5. Creating Functions In JavaScript.

⇒ If you write the code in scripting tag, it will execute only at the time of page load.

⇒ If you prepare the code using functions, that can execute whenever we need.

Syntax:

```
function function-name ()  
{  
  
}  
}
```

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Note:

⇒ No need to mention return type and argument type while returning the value and accepting arg. resp.

⇒ just provide required document argument

⇒ return stmt can be included in function if required

6. Event Handling In JavaScript.

⇒ All html supports event for element

⇒ We can handel these event by using JavaScript functions

⇒ Eg.

Description

Event Attribute

Page load

onload

Button click

onclick

Mouse Over

onmouseover

Mouse Out

onmouseout

Cursor Enter

onfocus

Cursor leave

onblur

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⇒ we can invoke the javascript function using these event

Ex: 1) `<input type="button" id="b1" onclick="f1()" />`

Time Based Execution

⇒ To execute the code based on time.

JavaScript provides `setInterval()` method

Usage:

1. `setInterval(f1, 3000);`

22/July/2016

Program 1.

<!-- create a web Page to Display Welcome msg
based on the given user name. -->

```
<html>
  <head>
    <script>
      function f1()
      {
        Var obj = document.getElementById ("t1");

        Var str = "Welcome to <u>" + obj.value + "</u>";

        Var obj2 = document.getElementById ("p1");
        obj2.innerHTML = str;
      }
    </script>
  </head>
  <body>
    <h1> JavaScript Demo </h1>
    <hr/>

    User Name : <input type = "text" id = "t1" />
    <br> </br>

    <input type = "button" value = "Get msg".
                                onclick = "f1()" />

    <p id = "p1"> </p>
  </body>
</html>
```

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Program 2:

<!-- create a web Page to Perform addition by using Js -->

<html>

<head>

<script>

function f1() {

Var obj1 = document.getElementById("t1");

Var obj2 = document.getElementById("t2");

Var obj3 = document.getElementById("t3");

Var n = parseInt(obj1.value) +

parseInt(obj2.value);

obj3.value = n;

}

</script>

</head>

<body>

<h1> JavaScript Demo </h1>

<hr/>

First Number: <input type="text" id="t1" />

Second Number: <input type="text" id="t2" />

 </br>

Result: <input type="text" id="t3"
readonly="true" />

 </br>

<input type="button" value="Add" onclick="f1()" />

</body>

</html>

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Program 3: Create a webpage to display total amt from given data

Program 4: <!-- To update the styles (background color) -->

```
<html>
  <head>
    <script>
      function F1() {
        Var obj = document.getElementById("div1");
        obj.style.backgroundColor = "Pink";
      }

      function F2() {
        Var obj = document.getElementById("div1");
        obj.style.backgroundColor = "Pink";
      }
    </script>
  </head>
  <body> <h1> JavaScript Demo </h1>
  <hr />
  <div id = "div1" style = "background-color: lightPink";
    border: 2px solid black;
    onmouseover = "F1()"; onmouseout = "F2()">
    <h1> Welcome to JS </h1>
  </div>
</body>
</html>
```

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<!-- To display Selected Image using Js --> ^{28/July/2016}

<html>

<head>

<script>

Function Fl()

{

Var obj = document.getElementById("s1");

Var obj1 = document.getElementById("img1");

obj1.src = obj.value;

}

</script>

</head>

<body>

<h1> JavaScript Demo </h1>

</hr>

Select Image :

<select id="s1" onchange="Fl()">

<option> Image1.jpg </option>

<option> Image2.jpg </option>

<option> Image3.jpg </option>

:

</select>

 </br>

</body>

</html>

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<!-- Create a webpage to display ~~or~~ to align the paragraph content based on mouse over event using javascript -->

```
<html>
  <head>
    <Script>
      Function FF F(eff){
        var arg = eff.value;
        Var obj = document.getElementById("P1");
        obj.style.text-align = "arg.value";
      }
    </script>
  </head>
  <body> <h1> JavaScript Demo </h1> </head>
  <hr />
  <select id = "s1" onmouseover = "FF()">
    <option> Img1.jpg </option>
    <option> Img2.jpg . . . </option>
  <img onmouseover = "F1('Left')"
    Src = "Image1.jpg" />
  <img onmouseover = "F1('Right')"
    Src = "Img2.jpg" />
  <img onmouseover = "F1('Center')"
    Src = "Img3.jpg" />
  <p> . . . . . </p>
</head>
<body>
</html>
```

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Page

<!-- create a webpage to display image automatically based on time using JavaScript.

Use setInterval() method to implement timer prgm -->

<html>

< head>

< script>

Var n=1;

Function F1() { setInterval(f2, 2000); }

Function F2() { if (n==7) { n=0; }

n=n+1;

Var str = "Img"+n+".jpg";

Var obj = document.getElementById("img1");

obj.src = str;

}

</script>

</head>

<body onload="F1()" >

<h1> JS Demo </h1>

<hr/>

<img src = "Image1.jpg" .

<hr/>

<img src = "Image1.jpg"

id = "img1"

border = "2"

width = "300"

height = "200" />

</body>

</html>

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Web Development Using jQuery.

25/July/2016

- ⇒ jquery is an open source, light-weight javascript lib.
- ⇒ We can easily perform all client side programming by using jquery.
- ⇒ It make all client side activity will be more easy

Required s/w:

1. jquery library
2. Notepad / Notepad ++
3. Browser

Seteps To Integreate jquery with your web Page.

- ⇒ 1. Download jquery library in your web page by using `<script>` tag.
- ⇒ 2. Import jquery lib in web page by using
- ⇒ 2. `<script src = "jquery-3.1.0.js">`
`</script>`

Import jquery lib in your web page using

- ⇒ 3. Prepare the code using jquery.

```
<script>  
    // code using jquery  
</script>
```

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<!-- How to use jquery, to display jquery -->

<html>

<head>

<script src = "jquery-3.1.0.js" >

</script>

<script>

function F() {

(jquery) \$("#P1").text("welcome to jquery");

}

</script>

</head>

<body>

<h1> welcome to developement using jquery </h1>

<hr> </hr>

<Input type = "button" value = "Get msg"

messag" onclick = "F()" />
javascript event.

 </br>

<p id = "P1" > </p>

</body>

</html>.

⇒ jquery level ⇒ \$("#b1").click(F);

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<!-- Update the previous example by jquery event Handling -->

```
<html>
<head>
<script src="jquery-3.1.0.js" />
</head>
<body>
  <h1> Web Page </h1>
  <hr> </hr>
  <input id="b1" type="button"
    value="Get msg" />
  <br> </br>
  <p id="p1"> </p>
  <script>
    {
      $(" # b1").click ( function()
      {
        $(" # p1").text("welcome");
      } );
    }
  </script>
</body>
</html>
```

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⇒ In This example we are

Note:- The above coding the function that we are passing to click event is called unknown functions
(or) unanonus function.

⇒ most of jquery programs are using unknown funⁿ only

jQuery Programming Structure.

```
①$(②document).③ready (function() {  
                                // code  
                                } );
```

1. \$(document):

- ⇒ \$ represent jquery function
- ⇒ Actually it is "jquery()" function which is consider as factory function
- ⇒ \$(document) is select document obj to apply events
- ⇒ document is pre-defined object in javascript.
- ⇒ document obj. refers your html document.

2. ready()

- ⇒ ready() is jquery event
- ⇒ ready event will fires after loading all html elements in the browser
- ⇒ ready event expecting fun to execute when html document is ready

3. function() { -- -- }

- ⇒ It is unNamed functions
- ⇒ we can prepare required code in this function that will execute when document is ready.

<!-- a web pag having jquery program (structure) -->

<html>

<head>

<script src = "jquery-3.1.0.js"/>

</head>

<script>

\$(document).ready(function()

{

\$("#b1").click(function()

{

var unm = \$("#t1").val();

var str = "Welcome to " + unm;

\$("#p1").text(str);

\$("#p1").css(

"background-color", "Blue");

\$("#p1").css("color", "Red");

});

});

</script>

</head> <body> <h1> Welcome </h1> <hr/>

UN: <input type = "text" id = "t1" />

<input id = "b1" type = "button"

~~onclick =~~ " Value msg = "get msg" />

<p id = "p1" > </p>

</body>

</html>

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Homework:-

Student Name

Course Name

Duration

Student Name : Scott

Course : jquery

Duration : 30

```
$(document).ready(function()
{
    $("#b1").click(function()
    {
        var student_name = $("#t1").val();
        var course = $("#t2").val();
        var fee = $("#t3").val();

        var str = " — t1 — " + student_name + " + course + "
                  + fee ;

        $(.. )....

    }
}
```

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Selectors In JQuery

26/July/2016

- ⇒ jquery selectors are used to get the reference of html elements.
- ⇒ once we get the reference we can apply/perform required operations.
- ⇒ `$("string")` is referred as jquery selector.
- ⇒ It provides several options to select html elements based on our requirement
- ⇒ Before Applying any operation on html tags, first we need to select with jquery selector.

Usage of JQuery Selector

- ⇒ jquery selectors are implemented based on the following options.

1. Tag Based:-

- ⇒ Get the html element based on the tag name

Syntax:-

`$("tagname");`

`$("h1");`

`$("div");`

`$("p");`

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2. Id Based.

- ⇒ If you want to select based on id.

Syntax:-

`$("#id");`

`$("#text1");`

`$("#div1");`

3. Class Based:

⇒ Get the HTML element based on the class name

⇒ "Class" is one of the attribute that is applicable to all HTML tags.

⇒ It is used to group more than one HTML element.

Syntax: `$(".className")`
`$(".class1")`
`$(".c1")`

Note:- Especially these "class" attribute is very useful

4. ~~Select All Elements~~. / helpful to apply styles / refer set of items from client side code

4. Select All Elements.

`$("*")`

5. Select Multiple Elements.

`$("h1, p")`

`$("#text1, #text2")`

`$(".class1, .class2")`

6. Selecting Document.

`$(document)`

7. Current Item Selection.

`$(this)`

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<!-- program to do sum using jquery -->

<html>

<head>

<script src = "jquery-3.1.0.js">

</script>

<script>

\$(document).ready(function()

{
 \$("#b1").click(function()

{
 var x = \$("#t1").val();

var y = \$("#t2").val();

var z = parseInt(x) + parseInt(y);

\$("#t3").val(z);

});

});

</script>

</head>

<body>

<h1> Welcome to JQuery </h1>

Enter First Value : <input type="text" id="t1"/>

 </br>

Enter Second Value: <input type="text", id="t2"/>

Result : <input type="text" id="t3", readonly="true"/>

 </br>

</body>

</html>

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```
<input type = " button" id = " b1"
Value = "sum" />
```

```
</body>
```

```
</html>
```

Program 2:

<!-- Using Multiple buttons for multiple operation-->

```
<html>
```

```
<head>
```

```
<script src = " jquery-3.1.0.js" >
```

```
</script>
```

```
<script>
```

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

```
{
```

```
$("#cl").click ( function ()
```

className

```
{
```

```
Var str = $(this).val ();
```

↑ present current value

```
Var x = $( "#t1" ).val ();
```

```
Var y = $( "#t2" ).val ();
```

```
Var z = 0;
```

```
if (str == "sum")
```

```
{ z = parseInt(x) + parseInt(y);
```

```
}
```

```
if (str == " sub")
```

```
{ z = parseInt(x) + parseInt(y);
```

```
}
```

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```

    if (str == "mul")
    {
        z = parseInt(x) * parseInt(y);
    }
    if (str == "div")
    {
        z = parseInt(x) / parseInt(y);
    }

    $("#t3").val(z);
}

```

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```

}
</script>
</head>
<h1> Welcome To jquery </h1>
<hr/>
<body>

```

Enter First Value: <input type="text" , id="t1" id="t1"/>
class="c1"

Enter Second Value: <input type="text" id="t2"/>

Result: <input type="text", id="t3"
readonly="true" />

```

<input type="button" class="c1" value="Sum"/>
<input type="button" class="c2" value="Sub"/>
<input type="button" class="c3" value="Div"/>
<input type="button" class="c4" value="Mul"/>
</body> </html>

```

jQuery Methods to Get and Set the Content of HTML Page Element

1. val()

⇒ val() method is used to get/set value of html controls like textbox, password, checkbox, etc.

Usage: Var x = \$("#text1").val();
\$("#text1").val("Hello");

2. text()

⇒ This function is used to get/set data from content tags like <p>, <h1>, , etc.

Usage: Var str = \$("#p1").text();
\$("#p1").text("Hello");

3. html()

⇒ If you want set/get the text with html tags involvement, then you can use "html()".

Usage: Var str = \$("#p1").html();
\$("#p1").html("<u>Hello</u>");

4. attr()

By using this function we can get/set any attribute value

Usage: Var str = \$("#img1").attr("src");
\$("#img1").attr("src", "image1.jpg");

27/July/2016

<!-- create a webpage to display selected image
based on mouseover event -->

<html>

<head>

<script src = "jquery-3.1.0.js">

</script>

<script>

\$(document).ready (function() {

{

\$(".cl").mouseover (function() {

{

var str = \$(this).attr ("src");

\$("#img1").attr ("src", str);

});

});

</script>

<style>

.cl

{

height : 50px

width : 70px

border : 1px solid black;

padding : 5px;

}

</style>

</head>

<body>

<h1> Welcome to Home </h1>

<hr/>

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```
<br></br>
```

```
<img class = "c1" src = "Images/Image1.jpeg" />
```

```
<img class = "c1" src = "Images/image2.jpeg" />
```

```
<img class = "c1" src = "Images/image3.jpeg" />
```

```
<img class = "c1" src = "Images/image4.jpeg" />
```

```
<br></br>
```

```
</body>
```

```
</html>
```

Q: <!-- Create a webpage to display selected image in dropdown list-box using jquery and display selected image name in paragraph -->

```
<html>
```

```
<head>
```

```
<script src = "jQuery-3.10.js">
```

```
</script>
```

```
<script>
```

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

```
{
```

```
$("#id"). change( function()
```

```
{
```

```
Var str = $("#id"). c1.val()
```

```
$("#img"). attr("src", "Image1.jpeg");
```

```
}); $("#p1"). text("Img nm "+ str);
```

```
});
```

Sir

```
{ Var str = "Images/" + $("#s1").val();
```

```
$("#img1"). attr("src", str);
```

```
$("#p1"). text(str) (or) ($("#s1").val());
```

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< body>

< h1> Select Images that you want For Demo </h1>

Select Image: < select ~~id="s1"~~ ^{id="s1"} class="cf" ~~change~~

< option> Image1.jpeg </option>

< option> Image2.jpeg </option>

...

< /select>

< p id="p1" > Image1.jpeg </ p> .

< /body>

Selected image: < img src="img1" id="img"
height="200" width="300"
border="2" /> .

< /head>

< /body>

< /html>

Wrong

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Styles In JQuery.

- ⇒ Applying styles to html elements using jquery is one of the frequently required task.
- ⇒ jquery provides special methods to apply styles at runtime.
- ⇒ These methods supports all version of css properties

Methods.

1) `css (prop , value)`

- ⇒ By using this method we can update the style property

Single Property :- `$('#p1').css ("color", "blue");`

2. Multiple Property :

We can apply multiple styles properties using `css()` method but with obj as argument

Syntax :- `$(selector).css ("Prop" : "value",
"prop": "value", ...);`

Example :-

```
$( "#div1" ).css ( { "color" : "blue",  
"background-color" : "lightBlue" } );
```

3) `addClass()`

- ⇒ This method is used to apply css class to selected element
- ⇒ It is easy to apply more number of css properties at a time with this method
- ⇒ we can reuse existing css class and integrate in jquery programming

⇒ To implement this option, first we need to prepare CSS classes in your webpage / * ~~class~~ CSS file.

Syntax:

```
$(selector).addClass("className");
```

Eg. `$("div").addClass("cl");`

4. removeClass()

⇒ This method will remove CSS class from HTML element

⇒ It means removes all CSS properties belongs to that class.

Syntax:

```
$(selector).removeClass("className");
```

Eg:

```
$("#div1").removeClass("cl");
```

5. toggleClass()

⇒ If you use these method, it will apply if element is not having style class

⇒ It will remove if element is having style class.

Syntax.

```
$(selector).toggleClass("className");
```

Ex:-

```
$("#div").toggleClass("cl");
```

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<!-- create a webpage to apply styles to buttons based on mouse event using jquery -->

<html>

<head>

<script src = "jquery-3.1.0.js">

</script>

<script>

Var x, y;

\$(document).ready (function ()

{

\$(".cl").mouseover (function ()

{

x = \$(this).css ("background-color");

y = \$(this).css ("color");

\$(this).css ("background-color", y);

\$(this).css ("color", x);

});

\$(".cl").mouseout (function ()

{

\$(this).css ("background-color", x);

\$(this).css ("color", y);

});

});

</script>

</head>

<body>

<h1> welcome to jquery </h1>

</body>

<style>

```
.c1 { width: 70px;  
      height:  
      border: 1px solid Black;  
      background-color: Green;  
      color: white;  
    }
```

</style>

</head>

<body>

<h1> Applying styles using jquery </h1>

<hr/>

<input type="button" class="c1" value="login"/>

<button class="c1"> Register </button>

<button class="c1"> Edit </button>

<button class="c1"> Delete </button>

</body>

</html>

Run by steps.

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<!-- create a web page to apply background-color for textboxes based on focus related event using jquery -->

```
<html>
  <head>
    <script src="jquery-3.1.0.js">
    </script>
    <script>
      $(document).ready ( function()
      {
        $(".cl").focus ( function()
        {
          $(this).css ("background-color", "Pink");
        });
        $(".cl").blur ( function()
        {
          $(this).css ("background-color", "white");
        });
      });
    </script>
  </head>
  <body>
    <h1> Applying Styles Using JQuery </h1>
    <hr>
    First Name: <input type="text" class="cl" /><br>
    Last Name: <input type="text" class="cl" /><br>
    Email Id: <input type="text" class="cl" /><br>
    phone No :
    <input type="submit" value="Register" />
  </body> </html>
```

<!-- Create a webpage to apply styles to h1 and p tags with CSS classes using jquery -->

<html>

<head>

<script src = "jquery-3.1.0.js">

</script>

<script>

\$(document).ready (function()

{

\$("#b1").click (function()

{

\$("#h1").addClass("c1");

\$("#p").addClass("c2");

});

\$("#b2").click (function()

{

\$("#h1").removeClass("c1");

\$("#p").removeClass("c2");

});

\$("#b3").click (function()

{

\$("#h1").toggleClass("c1");

\$("#p").toggleClass("c2");

});

}); </script>

<style>

.c1 { background-color: green ;
color: white ;

}

.c2 {

background-color: blue ;

font-size: 20px ;

font-family: Arial; border: 2px dotted;

}

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```
</style>
</head>
<body> <h1> Applying Style Using jQuery </h1>
</hr>
<button id="b1"> Add class </button>
<button id="b2"> Remove class </button>
<button id="b3"> Toggle class </button>
<h1> Section-1 </h1>
<p> This is test paragraph </p>
.....
<h1> Section-2 </h1>
<p> This is test - - - </p>
</body>
</html>.
```

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<!-- create a webpage to access css classes based on the selected theme using jquery --> 29/july/2016

```
<html>
<head>
  <script src="jquery-3.1.0.js"> </script>
  <link href="myStyle.css" rel="stylesheet"/>
```

```
<script>
  $(document).ready(function()
  {
    $("#table1").addClass("c1");
    $("#s1").change(function()
    {
      var str = $(this).val();
      $("#table1").removeClass();
      $("#table1").addClass(str);
    });
  });
</script>
```

```
</head>
```

```
<body> <h1> Applying jquery styles </h1>
```

```
<hr>
```

```
Select theme: <select id="s1">
```

```
<option value="c1"> BlueTheme </option>
```

```
<option value="c2"> GreenTheme </option>
```

```
<option value="c3"> RedTheme </option>
```

```
</select>
```

```
<br></br>
```

```
<table id="table1" border="2">
```

```
<tr> <th> Student Id </th>
```

```
<th> Student Name </th>
```

```
<th> Course </th> <th> Duration </th>
```

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```

<tr> <td> 1025 </td>
      <td> scott </td>
      <td> jquery </td>
      <td> 30 </td> </tr>
<tr> <td> 1026 </td>
      <td> scott </td>
      <td> java </td>
      <td> 60 </td> </tr>
<tr> <td> 1027 </td>
      <td> scott </td>
      <td> Oracle </td>
      <td> 60 </td> </tr>
</table>
</body>

```

```
</html>
```

The imported file (mystyles.css)

```

.cl
{
  border : 2px solid blue
  border-collapse : collapse;
}

```

```

.cl th
{
  background-color : Blue;
  color : white;
  border : 1px solid skyBlue;
  padding : 10px;
}

```

```

.cl td
{
  background-color : skyBlue;
  color : Black;
  border : 1px dotted Black;
  padding : 10px;
  text-align : center;
}

```

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```
/* class2: */
```

```
.c2
```

```
{  
  border : 2px solid green ;  
  border-collapse : collapse ;  
}
```

```
.c2 th
```

```
{  
  background-color : green ;  
  color : white ;  
  border : 1px solid lightgreen ;  
  padding : 10px ;  
  border-bottom : 5px solid yellow ;  
}
```

```
.c2 td
```

```
{  
  background-color : lightgreen ;  
  color : black ;  
  border : 1px dotted black ;  
  padding : 10px ;  
  text-align : center ;  
}
```

```
.c3 /* class 3 */
```

```
{ border : 2px solid red ; border-collapse : collapse ; }
```

```
.c3 th
```

```
{  
  background-color : red ; color : white ;  
  border : 1px solid lightpink ; padding : 10px ;  
  border-bottom : 5px solid orange ;  
}
```

```
.c3 td
```

```
{  
  background-color : lightpink ; color : black ;  
  border : 1px dotted black ; padding : 10px ;  
  text-align : center ; }
```

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DOM Traversing In jQuery

1/Aug/2016

- ⇒ jQuery Selectors are used to refer elements of HTML document.
- ⇒ Some selectors refer multiple elements
- ⇒ So that these selectors will return collection of objects (HTML elements)
- ⇒ If you want to select specific item from the collection, jQuery provides special functions and Selector options.
- ⇒ By using these options we can easily traverse the items from the collection.

1) Traversing Individual Item :

- ⇒ we can traverse individual items from the selector in two ways:

Using `each()` function
→ Item based processing

Using `eq()` function
→ Index based processing

Syntax:-

`each()` :- `$(Selector).each(function()
{
 // required code.
});`

`eq()` :- `$(Selector).eq(i);`

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<!-- create a webpage to access individual items -->

<html>

<head>

<script src = "jquery-3.1.0.js"> </script>

<script>

\$(document).ready (function ()

{
\$. "#b1"). click (function ()

{
\$. ("p"). each (function ()

{
var str = \$(this). text();
alert (str);
});

});

\$("#b2"). click (function ()

{
\$. ("p"). each (function ()

{
var str n = \$("p"). length;

for (i=0 ; i<n ; i++)

{
var str = \$("p"). eq(i). text();
alert (str);

});

});

});

</script>

</head>

```
<body>
<center>
<button id="b1" value="using equals" </button>
<button id="b2" value="eg" </button>
<p> This is paragraph 1 </p>
<p> This is paragraph 2 </p>
<p> This is paragraph 3 </p>
<p> This is paragraph 4 </p>
<p> This is paragraph 5 </p>
</center>
</body>
```

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<!-- create a webpage to apply different colors to the list items using jquery -->

```
<html>
<head>
<script src = "jquery-3.1.0.js"> </script>
<script>
    $(document).ready ( function ()
    {
        Var arr = [ "Red", "Green", "Blue" ] ;
        Var i = 0;

        $("#list li").each ( function ()
        {
            $(this).css ( "color", arr[i] );
            i = i + 1;
            if ( i == 3 ) { i = 0; }
        });
    });
</script>
</head>
<body>
<h1> Applying colors using jquery </h1>
<hr/>
<ul id = "list">
    <li> jquery </li>
    <li> AngularJs </li>
    <li> HTML </li>
    <li> CSS </li>
    <li> Java </li> </ul> </body> </html>
```

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<!-- create a webpage to prepare multicolor list
using jquery -->

<html>

<head>

<script src="jquery-3.1.0.js"> </script>

</script>

\$(document).ready (function ()

{

Var ar = ["#FFFF47", "#FF7577", "#FFa347",
"#FFd147"];

Var i = 0;

\$("#list li").each (function ()

{

\$(this).css ("background-color", ar[i]);

i = i + 1;

if (i == ar.length)

{

i = 0;

}

});

});

</script>

<style>

#list1

{

background-color :

border : 2px solid Blue;

width : 170px

list-style : none;

padding : 5px ; }

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```
# list li
{
  border: 2px solid green;
  padding: 5px;
  margin: 5px;
  width: 150px;
}
```

</style>

</head>

<body>

<h1> DOM Traversing Using jQuery </h1>

<hr> <hr/>

<ul id="list1">

 AngularJS

 HTML

 JQuery

.....

</body>

</html>

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2) Traversing Alternate Items:-

21 Aug/2016

⇒ IF you want to select alternate item from the collection, jquery provides special option in selector expression.

⇒ It works based on the index of the item in the collection.

Syntax:- \$ ("selector: even")

\$ ("selector: odd")

Example:-

2/Aug/2016

```
$("#table1 tr:even").css(...);
```

```
$("#table1 tr:odd").css(...);
```

Note:- we can also refer ~~list~~ first/last item from the collection using following ~~items~~ options:

```
$("#list li :first);
```

```
$("#list li :last);
```

<!-- create a webpage to apply background colors for alternate rows using jquery -->

```
<html>
```

```
<head>
```

```
<script src = "jquery-3.1.0.js" > </script>
```

```
<script>
```

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

```
{
```

```
$("#table1 tr:even").css
```

```
css("background-color", "Aqua");
```

```
$("#table1 tr:odd).
```

```
css("background-color", "Pink");
```

```
$("#table1 tr: first).
```

```
css("background-color", "Red");
```

```
$("#table1 tr: last).
```

```
css("background-color", "Green");
```

```
});
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h1> Applying Colors to Alternate rows & columns </h1>
```

```
<hr/>
```

```
<table id="table1" width="450" border="2"  
      align="center">
```

```
<tr>
```

```
  <th> Empno </th>
```

```
  <th> Ename </th>  <th> Job </th>
```

```
  <th> Sal in ($) </th>
```

```
  <th> Dept no </th>
```

```
</tr>
```

```
<tr>
```

```
  <td> 2222 </td>
```

```
  <td> scott </td>
```

```
  <td> sr. Lead </td>
```

```
  <td> 2000 </td>
```

```
  <td> 101 </td>
```

```
</tr>
```

```
  . . .  
  . . .  
  . . .
```

```
<tr> <td style="text-align: center;"
```

```
  colspan="5"> 2016 Employee List </td>
```

```
</tr>
```

```
</table>
```

```
</body>
```

```
</html>
```

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3. Traversing Filtered Items / Not-Filtered Items.

⇒ jquery selectors will return all method elements

⇒ filter() function will filter out element that are matching from the collection that is return from selectors.

Syntax:- \$(selector).filter("Filter expression");

Example:

```
$("#list li").filter(".class1");
```

```
$("#list tr").filter(".class2");
```

Not-Filtered Items:-

⇒ not() will return items that are not matching given expression

⇒ not() expression function is simply negation of filter()

Syntax:- \$(selector).not(selector);

Example: \$("#table tr").not(".cl");

<!-- create a webpage to apply background colors to rows by using filter() & not() -->

```
<html>
```

```
<head>
```

```
<script src = "jquery-3.1.0.js">
```

```
</script>
```

```
<script>
```

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

```
{
```

```
$("#table1 tr").filter(":cl").
```

```
css("background-color", "Green");
```

```
$("#table1 tr").not(":cl").
```

```
css("background-color", "light Green");
```

```
$("#table1 tr:lt(2)).not(":cl").
```

```
css("background-color", "DeepPink");
```

```
$("#table1 tr:last).css
```

```
("background-color", "Green");
```

```
$("#table1 tr").css("color", "white");
```

```
});
```

```
</script>
```

```
</head>
```

```
<body> <h2> DOM Traversing </h2> <hr/>
```

```
<table align="center" id="table1" border="2" width="450">
```

```
<tr>
```

```
<th> ProductName </th>
```

```
<th> Unite Price </th>
```

```
<th> stock </th>
```

```
</tr>
```

```
<tr>
```

```
<td> Printer </td>
```

```
<td> 2500.00 </td>
```

```
<td> 20 </td>
```

```
</tr>
```

```
....
```

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```

<tr class="c1">
  <td> 1TB Samsung HDD </td>
  <td> 4500 </td>
  <td> 0 </td>
</tr>
...
<tr>
  <td colspan="3"> Summary Row </td>
</tr>
</table>
</body>
</html>

```

<!-- create a webpage to apply background color to rows without using filter() f method-->

```

...
<script>
$(document).ready( function()
{
  $("#table+ tr").each( function()
  {
    var var str = $(this).find("td").eq(2).text();
    if ( str == "0" )
    {
      $(this).css("background-color","red");
    }
    else
    {
      $(this).css("background-color", "blue");
    } // end of each.
  }); // --11-- . });

```

0 - 1000 - Pink
1001 - 3000 - Green
3001 - 5001 - Blue
5001 to ... - Yellow.

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DOM Manipulation Using JQuery

DOM traversing concept helps us to access the DOM elements.

After accessing DOM manipulation element, we need to modify them at runtime to perform client side activities.

JQuery provides methods to perform DOM manipulation.

These are categorized into two types.

1. Content Based
2. Structure Based

Content Based Manipulation

These methods can be used to get/set the content of the HTML elements.

1. text()
2. html()
3. val()
4. attr()
5. prop()

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Structure Based Manipulation

These methods can be used to modify the DOM structure i.e. add/remove the element at runtime.

Internally these methods will cause the update of the DOM tree.

1. append()
2. after()
3. before()
4. empty()
5. remove()

3/ Aug / 2016

<!-- create a webpage to demonstrate usage of Dom manipulation methods of jquery -->

```
<html>
```

```
<head>
```

```
<script src = "jquery-3.1.0.js" > </script>
```

```
<script>
```

```
Var str = " <tr bgcolor = 'Aqua' >";
```

```
str = str + "<td> keyboard </td>";
```

```
str = str + "<td> 625.00 </td>";
```

```
str = str + "<td> 25 </td>";
```

```
str = str + "</tr>";
```

```
Function fn_Append() {
```

```
    $("#table1").append(str);
```

```
}
```

```
Function fn_After() {
```

```
    $("#table1 tr").eq(0).after(str);
```

```
    // $("#table1 tr").filter(".header").after(str);
```

```
}
```

```
Function fn_Before() {
```

```
{
```

```
    Var n = $("#table1 tr").length;
```

```
    $("#table1 tr").eq(n-1).before(str);
```

```
    // $("#table1 tr").filter(".Footer").before(str);
```

```
}
```

```
Function fn_empty() {
```

```
    $("#table1").empty();
```

```
}
```



```

function fn-Remove() {
    $("#table1").remove();
}

```

```

</script>

```

```

</head>

```

```

<body>

```

```

<h2> jQuery DOM traversing </h1>

```

```

<hr/>

```

```

<button onclick = "fn-Append()"> Append </button>

```

```

<button onclick = "fn-after()"> After </button>

```

```

<button onclick = "fn-before()"> Before </button>

```

```

<button onclick = "fn-Empty()"> Empty </button>

```

```

<button onclick = "fn-Remove()"> Remove </button>

```

```

<br> </br>

```

```

<table id = "table1" border = "2">

```

```

    <tr class = "header">

```

```

        <th> Product Name </th>

```

```

        <th> Quantity </th>

```

```

        <th> Price </th>

```

```

    </tr>

```

```

    <tr> <td> Printer </td>

```

```

        <td> 6200 </td>

```

```

        <td> 20 </td>

```

```

    </tr>

```

```

    <tr class = "Footer">

```

```

        <td colspan = "3"> summery </td>

```

```

    </tr>

```

```

</table> </body> </html>

```

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Note :-

Removing rows except header row.

```
$("#table1 tr").not(".header").remove();
```

⇒ Browser does not use "id" for submitting data to Server.
it uses "name" attribute.

<!-- create a webpage to generate textboxes at runtime using jquery DOM Manipulation -->

```
<html>
```

```
<head>
```

```
<script> src="jquery-3.1.0.js" </script>
```

```
<script>
```

```
Var str = "<tr>" ;
```

```
Str = Str + "<td> <input name='t1' /> </td>" ;
```

```
Str = Str + "<td> <input name='t2' /> </td>" ;
```

```
Str = Str + "<tr>" ;
```

```
function fn-Append ()
```

```
{
```

```
    $ (" #table1 tr").not (".header").remove();
```

```
    Var n = $ (" #s1").val();
```

```
    For (i=1; i<=n; i++) {
```

```
        $ (" #table1").append ($tr);
```

```
    }
```

```
}
```

```
</script>
```

```
</head>
```

<body>

<h2> DOM traversing using jquery </h2>

<hr>

Select No of products:

<select id="s1" onchange="fun=Append()">

<option>1 </option>

2

3

4

5

</select>

</br>

<table id="table1" border="0" width="300px">

<tr> <th> Product Name </th>

<th> Product Price </th>

</tr>

</table>

</br>

<input type="submit"/>

</body>

</html>

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JQuery Effects

4/Aug/2016

⇒ jquery library provides special functions to apply effects to html elements.

⇒ By using css also we can do the same task, but effects will apply based on the time (interval)

⇒ All effects want to apply duration for the effect functions, we can specify with 4 options

1. slow - 200
2. normal - 400
3. fast - 600
4. number - (milliseconds)

⇒ Function that can be used to apply effects in jquery

- | | |
|-----------------|-----------------------|
| 1. show() | 7. slideUp() - hide |
| 2. hide() | 8. slideDown() - show |
| 3. toggle() | 9. slideToggle() |
| 4. fadeIn() | 10. animate() |
| 5. fadeOut() | |
| 6. fadeToggle() | |

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<!-- Create HTML page to show/hide effect on img
by using jquery effects -->

<html>

<head>

<script src="jquery-3.1.0.js">

</script>

<script>

\$(document).ready(function)

{ //\$("#img1").hide(); The default effect.

\$("#img1").

\$("#a1").click(function()

{ \$("#img1").show(2000);

});

\$("#a2").click(function()

{ \$("#img1").hide(1000);

});

\$("#a2").click(function()

{ \$("#img1").toggle(1000);

});

});

<style> img { height: 200px;

width: 300px;

border: 2px solid blue;

Green;

} </style>

</script>

</head>

<body>

<h2> Applying Effects on HTML Page by using jquery </h2>

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```

<hr/>
<a href="#" id="a1">show</a> |
<a href="#" id="a2">hide</a> |
<a href="#" id="a3">show/hide</a>
<br> </br>

</body>
</html>.

```

←- create a webpage to display images as Tiles
Gallery using jquery -->

```

<html>
<head>
<style> img {
            height: 150px;
            width: 200px;
            border:
            padding: 5px;
            border-radius: 10px;
        }

```

```

td {
    height: 160px;
    width: 210px;
    text-align: center;
}

```

```

</style>

```

```

<script src="jquery-3.1.0.js">
</script>

```

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```
<script>
```

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

```
    $(".c1").hide();
```

```
    f1(); // invokes one time
```

```
    setInterval(f1, 2000); // invoke f1 repeatedly
```

```
});
```

```
function f1()
```

```
{
```

```
    $(".c1").toggle(2000);
```

```
    $(".c2").toggle(2000);
```

```
}
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h2> jQuery Effects </h2>
```

```
<hr/>
```

```
<table id="t1" border="2" bgcolor="pink">
```

```
<tr><td></td>
```

```
<td></td>
```

```
<td></td>
```

```
<td></td></tr>
```

```
<tr><td></td>
```

```
<td></td>
```

```
<td></td>
```

```
<td></td></tr>
```

```
...
```

```
</table>
```

```
</body>
```

```
</html>
```

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<!-- create HTML page to apply fade effect based on mouse events -->

<html>

<head>

<style>

```
.cl {  
    height: 220px;  
    width: 220px;  
    border: 2px solid blue;  
    padding: 50px;  
    margin: 25px;  
    border-radius: 180px;  
}
```

</style>

<script src = "jquery-3.1.0.js">

</script>

<script>

\$(document).ready (function ()

```
{  
    $(".cl").mouseover (function ()  
    {  
        $(this).fadeOut (2000);  
    });
```

\$(".cl").mouseout (function ()

```
{  
    $(this).fadeIn (500);  
});
```

});

</script> </body> </html>

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```

<body>
  <h1>
  <hr>
  <br>
  
  
  
  </body>
</html>

```

5/Aug/2016

<!-- create a HTML page to apply show/hide effect using
slideDown, slideUp method of jquery -->

```

<html>
<head>
  <script src="jquery-3.1.0.js"> </script>
  <script>
    $(document).ready(function()
    {
      $("#a1").click(function()
      {
        $("#img1").slideDown(2000);
      });
      $("#a2").click(function()
      {
        $("#img1").slideUp(2000);
      });
      $("#a3").click(function()
      {
        $("#img1").slideToggle("fast");
      });
    });
  </script>

```

```
</script>
```

```
<style>
```

```
img  
{
```

```
height : 200px ;
```

```
width : 300px ;
```

```
border : 2px solid ;
```

```
Green ;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h2> jquery Effects Demo </h2>
```

```
<br>
```

```
<a href = "#" id = "a1" > show </a>
```

```
<a href = "#" id = "a2" > hide </a>
```

```
<a href = "#" id = "a3" > hide/show </a>
```

```
<br></br>
```

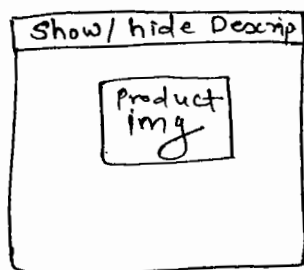
```
<img id = "img1" src = "images.jpg" />
```

```
</body>
```

```
</html>
```

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Que:- Create a webpage to show or hide product Description by using jquery slide effect.



<!-- create HTML webpage to display answers
based selected question using jquery effects-->

<html>

<head>

<script src = "jquery-3.1.0.js" > </script>

<script>

\$(document).ready (function ()

{

\$("#c2").hide ();

\$("#a1").click (function ()

{

\$("#c2").slideDown (2000);

});

\$("#a2").click (function ()

{

\$("#c2").slideUp (2000);

});

\$("#c1").click (function ()

{

\$(this).siblings ().eq (1).slideToggle (2000);

});

});

</script>

</head>

<body>

<h2> ~~Effects in jquery~~ </h2>

<styles> .c2 { border : 1px solid blue ;

background-color : lightGray ;

padding : 4px ;

</style>

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```

</head>
<body>
<h1> Effects in jquery </h1>
<br>
<a href="#" id="a1"> show All Answers </a>
<a href="#" id="a2"> hide All Answers </a>
<br></br>
<div>
<span> 1. what is jquery </span>
<a class="c1" href="#"> show/ Hide Answer </a>
<p class="c2">
  <strong> Answer: </strong>
  jquery is JS lib.
</p>
</div>
<div>
<span> 2. what is Angular JS </span>
<a class="c1" href="#"> show/ hide Answers </a>
<p class="c2">
  <strong> Answer </strong>
  Angular JS is JS Framework.
</p> </div>
</body>
</html>

```

1. Siblings() : It returns all the siblings of Selected item as collection.
2. parent() - It returns parent item of the selected item.
3. children() - It returns all the ~~points~~ child items.

10. Animate () :-

6/Aug/2016

⇒ This method will apply the animation based on the given css properties

⇒ It will apply the styles in given duration

⇒ This method will accept two arguments

1. css properties
2. duration

⇒ we can provide multiple properties also

Syntax:-

```
$( selector ). animate(  
    { "prop" : "value",  
      "prop" : "value", ... }  
    duration );
```

Example:

```
$( "#img1" ). animate( { "height": "200px", "width": "300px" },  
                        2000 );
```

<1- create a webpage to apply animation on image using jquery -->

```
<html>
```

```
<head>
```

```
<script src = "jquery-3.1.0.js" > </script>
```

```
<script>
```

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

```
{
```

```
    $( "#bt" ). click ( function ()
```

```
    {
```

```
        Var n = 1500;
```

```
        $( "#img1" ). animate ( { left: "300px" }, n );
```

```

$("#img1").animate({ top: "300px"}, n);
$("#img1").animate({ top left: "10px"}, n);
$("#img1").animate({ top: "10px",
                    opacity: 0
                    });

```

```

});

```

```

</script>

```

```

<style>

```

```

#img1

```

```

{
  position: relative;
  left: 10px;      (absolute)
  top: 10px;
  height: 90px;
  width: 90px;
}

```

```

#div

```

```

{
  height: 400px;
  width: 600px;
  border: 2px solid blue;
}

```

```

</style>

```

```

</head>

```

```

<body>

```

```

<h2> JQuery Animation </h2>

```

```

<hr>

```

```

<button id="b1"> Start Animation </button>

```

```

<br> </br>

```

```

<div id="div1">

```

```

```

```

</div> </body> </html>

```

```

$("#div").animate(
{
  opacity: 0.6;
  left: '+ = 50px',
  height: '+ = 50px',
  width: '+ = 50px'
});

```

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Data Handling In JQuery. 8/Aug/16

- ⇒ In database applications, we will get different types of data from server.
- ⇒ In client side program, we need to present the data according to our web page requirements.
ex:- Html Tables, List, Div, etc...
- ⇒ JQuery can communicate with server using ajax concept
- ⇒ The ajax based programs, we need to present the data which return by server in html page
- ⇒ At that time we should know how to handle the data using JQuery at runtime
- ⇒ Data may come any of the following formats from server.
 - 1) Scalar data
 - 2) Arrays
 - 3) Objects
 - 4) Array of objects
- ⇒ JavaScript provides options to store all the above formats.
- ⇒ JQuery can handle these formats by using Dom Manipulations Concept.

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<!-- create a webpage to display student details at runtime using jquery -->

<html>

<head>

<script src = "jquery-3.1.0.js" > </script>

<script>

Var sid = 1235 ;

Var sname = "scott";

Var Course = "jQuery";

Var duration = 30;

function f1()

{

Var str = " Student Id:" + sid + "

";

str = str + " Student Name:" + sname +
"
";

str = str + " Course Name:" + Course +
"
";

str = str + " duration of Course:"
+ duration + "
";

\$("#div1").append(str);

}

</script>

<style> #div1 {

border: 2px solid Blue;

background-color: Pink;

padding: 5px;

width: 250px;

font-size: 25px; </style> </body>

</html>

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```
</head>
```

```
<body>
```

```
<h1> Student Details </h1>
```

```
<hr> </hr>
```

```
<button id="bt" onclick="f1()">
```

```
Get Student Details </button>
```

```
<br> </br>
```

```
<div id="div1"> </div>
```

```
</body>
```

```
</html>
```

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Q-- Create a webpage to display the collections-->

```
<html>
```

```
<head>
```

```
<script src="jquery-3.1.0.js"> </script>
```

```
<script>
```

```
Var names = ["scott", "smith", "stephen", "James",  
              "sathya", "Ravi", "Raja", "Peter"];
```

```
Function f1()
```

```
{
```

```
    $("#list li").remove();
```

```
    (or) $("#list").empty();
```

```
    For (i=0; i < names.length; i++)
```

```
    {
```

```
        Var str = "<li>" + names[i] + "</li>";
```

```
        $("#list1").append(str);
```

```
    }
```

```
}
```

```
</script>
```

```
</head>
```

```

<body>
< h1> Collection of Student Names </h1>
< br> </br>
< hr>
< button id="bt" > get student list </button>
< ol id="list1" > </ol>
</body>
</html> .

```

1) Get Student Details

scott	smith	Stephen	James
Sathya	Ravi	Raja	Peter

2) Get Student Details

SR. NO	St No
1	scott
2	smith
3	Stephen
4	James
5	Sathya
6	Ravi
7	Raja

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<!-- create a JavaScript webpage to display dept details in textboxes using javascript obj-->

<html>

< head >

```
<script src = "jquery-3.1.0.js"> </script>
```

<script>

```
Var deptObj = { deptno: 10, dname: "Accounts", loc: "Hyd" };
```

\$ (document).ready (function ()

```
$("#bt").click(function()
```

3

```
$("input.text").val("");
```

```
$ (" #t1").Val (deptObj.deptno);
```

```
$ ("#t2").val (deptObj.elname):
```

```
$("$#t3").val (deptObj.loc);
```

 $\{ \}$ $\}) ;$

</script>

</head>

<body>

<h1> Data Handling: using jquery </h1>

```
<input type="button" id="b1" value="Get Dept  
details"/>
```


 </br>

Deptno: <input type="text" id="t1"/>

 $\langle br \rangle \quad \langle /br \rangle$

Dname: <input type="text" id="t"/>
</br>

```
100 <input type="text" id="t3" /> <br></br>
```

</body> </html>

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<!-- create a webpage to display collection dept details using JavaScript objects -->

```
<html>
```

```
<head>
```

```
<script src="jquery-3.1.0.js"> </script>
```

```
<script>
```

```
Var depts = [ { "deptno": 10, "dname": "Accounting",  
                "loc": "Hyd" },  
               { "deptno": 20, "dname": " Research",  
                "loc": "Pune" } ];
```

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

```
{  
    $("#bt").click( function()
```

```
{  
    $("#table1 tr").not(".header").remove();
```

```
    for ( i=0 ; i < depts.length ; i++)
```

```
{
```

```
    Var str = "<tr>";
```

```
    str = str + "<td>" + depts[i].deptno + "</td>";
```

```
    str = str + "<td>" + depts[i].dname + "</td>";
```

```
    str = str + "<td>" + depts[i].loc + "</td>";
```

```
    str = str + "</tr>";
```

```
    $("#table1").append(str);
```

```
}
```

```
    $("#table1 tr:even").css("background-color", "pink");
```

```
    $("#table1 tr:odd").css("background-color", "green");
```

```
});  
});
```

```
</script>
</head>
<body>
  <h1> Demo of JQuery Data Handeling </h1>
  <hr> </hr>
  <button id="b1"> Get All Depts </button>
  <br> </br>
  <table id="table1" width="400"
    border="3" >

    <tr> class="header">
      <th> Deptno </th>
      <th> Dname </th>
      <th> Loc </th>
    </tr>
  </table>
</body>
</html>
```

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AJAX Programming with JQuery

What is AJAX?

⇒ AJAX - Asynchronous JavaScript And xml.

⇒ AJAX is Client side programming technique used to communicate with server Asynchronously.

Note:

This technique is first identified and used by Google team

Advantages of AJAX:-

1. Partial page updates
2. Reduce the burden on the server.
3. Reduce the network traffic
4. Quick Response.

Implement AJAX Programming:

⇒ Ajax is client side programming

⇒ It is implemented with the help of JavaScript

⇒ If we implement with basic javascript it will be difficult and time consuming programming

⇒ In order to make ajax programming is easy, there are several javascript libraries available.

- Eg:
1. JQuery
 2. Angular Js
 3. Dojo
 4. Node Js etc...

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JSON:-

- ⇒ JSON stands for JavaScript object Notation.
- ⇒ JSON concept is used to transfer the data from client to server or server to client in ajax calls.
- ⇒ It is object representation technique in javascript
- ⇒ At the time of introducing AJAX, every one uses XML to transfer the data from server
- ⇒ If we use XML, we need to serialize/de-serialize the XML data into objects
- ⇒ But JSON can access directly in client code (Ajax programming)
- ⇒ JSON objects are light weight objects.

Advantages of JSON over XML

1. Easy to represent, access and read.
2. Light weight objects
3. No need to perform serialize/de-serialize
4. All javascript libraries supports
5. Easy to map programming obj. to JS objects due to its property representation.

Rules for Creating JSON data.

1. Object Properties are represented in name: value pairs
2. Each property is separated by comma.
3. Property Name should be in double quotations.
Starting values should be in double quotations
4. curly braces hold objects.
5. Square brackets hold arrays.

Example on JSON obj.

```
{ "deptno": 10, "dname": "Accounts" }
```

```
[ { "deptno": 10, "dname": "Accounts" },  
  { "deptno": 20, "dname": "Sales" } ]
```

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Implementing AJAX Programming in JQuery.

⇒ JQuery library provides functions to implement ajax programming

Function Name: \$.ajax()

⇒ By using this function we can communicate with server asynchronously

⇒ In ajax programming, your JavaScript code is responsible

1. Send the Request
2. Receive the response
3. Display the response on the page.

Syntax:-

```
$.ajax({  
    url: "required URL",  
    type: "GET/POST",  
    data: " ",  
    contentType: "application/json;",  
    success: function(response)  
    {  
        // handle response  
    }  
});
```

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<- - create a webpage to display all dept details by making ajax calls using jquery -->

1. index.html

```
<html>
<head>
<script src="jquery-3.1.0.js"> </script>
<script>
$(document).ready ( function()
{
    $("#bt").click ( function()
    {
        $.ajax (
        {
            url: "GetDepts.jsp",
            type: "GET",
            data: " ",
            contentType: "application /json;",
            success: function ( response)
            {
                DisplayResponse ( response);
            }
        }); // ajax
    }); // click
}); // ready

function DisplayResponse ( depts)
{
    $("#table1. tr").not (".header").remove();
    for ( i=0; i<depts.length; i++)
    {
        var str = "<tr>";
        str += "<td>" + depts[i].deptno + "</td>";
```

```
str += "<td>" + depts[i].dname + "</td>";
```

```
str += "<td>" + depts[i].loc + "</td>";
```

```
str += "</tr>";
```

```
$("#table1").append(str);
```

```
}
```

```
$("#table1 tr:even").css("backgroundColor",  
"LightPink");
```

```
$("#table1 tr:odd").css("backgroundColor",  
"Pink");  
}
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h1> Ajax Programming using jquery </h1>
```

```
<hr> </hr>
```

```
<button id="b1"> Get All Depts </button>
```

```
<br> </br>
```

```
<table bgcolor="LightYellow" id="table1"  
width="400px" align="center" border="2">
```

```
<tr class="header" bgcolor="LightPink">
```

```
<th> Deptno </th>
```

```
<th> Dname </th>
```

```
<th> Loc </th>
```

```
</tr>
```

```
</table>
```

```
</body>
```

```
</html>
```

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<!-- Displaying records depend on dept.no -->

<html>

<head>

<script src = "script/jquery-3.1.0.js">

</script>

<script>

\$(document).ready (function ()

{

\$("#b1").click (Function ()

{

Var n = \$("#t1").val ();

\$.ajax (

{

url : "GetDept.jsp?deptno =" + n, 0

typ : "GET",

data : " ",

contentType : "application /json;"

success : Function (response)

{

Var obj = response;

\$("#t1").val (obj.deptno);

\$("#t2").val (obj.deptname);

\$("#t3").val (obj.loc);

}

});

});

});

</script>

</head>

<body>

<h1> Ajax Programing using jquery </h1>

<hr/>

```
<button id="bt"> Get Dept Details </button>
```

```
<br><br>
```

```
Deptno: <input type="text" id="t1"/> <br></br>
```

```
Dname: <input type="text" id="t2"/> <br></br>
```

```
loc: <input type="text" id="t3"/> <br></br>
```

```
</hr>
```

```
</body>
```

```
</html>
```

Dept.java

```
public class Dept{
```

```
    private int deptno;
```

```
    private String dname;
```

```
    private String loc;
```

```
    public int getDeptno(){
```

```
        return deptno;
```

```
    }
```

```
    public void setDeptno(){
```

```
        this.deptno = deptno;
```

```
    }
```

```
    . . .
```

```
    . . .
```

```
}
```

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GetDept.jsp

```
<%@page import = "java.sql.*", java.util.*, com.*,  
com.google.gson.*" language = "java" %>
```

```
<% String JDBC_Driver = "  
String DB_URL = "  
String USER = "system";  
String Password = "Vtkarsh";
```

```
Connection con = null;  
Statement stmt = null;  
ResultSet rs = null;
```

```
try {
```

```
Class.forName ("
```

```
conn = DriverManager.getConnection(DB_URL, USER, Password);
```

```
stmt = conn.createStatement();
```

Step: rs = stmt.executeQuery("select * from Dept");

```
ArrayList<Dept> deptlist = new ArrayList<Dept>();
```

```
while (rs.next())
```

```
{
```

```
Dept obj = new Dept()
```

```
obj.setDeptno(rs.getInt(1));
```

```
obj.setDename(rs.getString(2));
```

```
obj.setLoc(rs.getString(3));
```

```
// Add dept obj to arraylist
```

```
deptlist.add(obj);
```

```
}
```

```

step*: Gson gsonObj = new Gson();
String jsonData = gsonObj.toJson(deptList);

response.setContentType("application/json");
response.setCharacterEncoding("UTF-8");
response.getWriter().writer(jsonData);
}
catch (Exception e)
{
    e.printStackTrace();
}
finally
{
    stmt.close();
    stmt.close();
}
%>

```

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For particular record.

Step: rs = stmt.executeQuery("select * from Dept
 WHERE Deptno = " + request.getParameter("deptno"))

```

step*: Gson gsonObj = new Gson();
String jsonData = gsonObj.toJson(obj);

```

File Structure:-

Ajax-JQuery Demo

↳ Scripts

↳ jquery-3.1.0.js

↳ WEB-INF

↳ classes

↳ com

↳ Lib

↳ gson-2.2.4.jar

↳ ojdbc6.jar

↳ Dept.java

↳ getDept.jsp

↳ GetDepts.jsp

↳ index1.html

↳ index2.html

↳ Dept.class

jQuery-UI

15/Aug/2016

- ⇒ It is special library developed by jQuery team.
- ⇒ It works based on regular jQuery library.
- ⇒ It provides several functions that make your web page is more rich.

Implementation

- ⇒ To implement jQuery-ui, you need to include following files:
 1. jquery-1.12.3.js
 2. jquery-ui.js
 3. jquery-ui.css
 4. [images]
 - ⇒ The above file can be downloaded from www.jqueryui.com
 - click "stable" button
 - ⇒ The downloaded *.zip files contains all the required files.
- Note: [images] folder and jquery-ui.css file should be placed in same folder.

Features of jQuery-UI

All the features are divided into four categories.

- 1) Interactions
- 2) widgets
- 3) Effects
- 4) Themes

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JQuery-UI Interactions

1. Draggable

⇒ Draggable Function of jquery ui allows the user can drag and drop an html elements.

⇒ By default user can not move the items from one place to another place

⇒ This feature allows the repositioning the items within the page

Syntax :- `$(selector).draggable();`

Example :- `$("#img1").draggable();`

2. Resizable

⇒ Resizable Function of jquery ui allows the user can resize the html elements

⇒ Usually end-user cannot resize the items on the web page

⇒ This feature you can apply for any html elements like `img`, `div`, `p`, etc.

Syntax: `$(selector).resizable();`

Example :- `$("#img1").resizable();`

3. Sortable

⇒ sortable function allows the user to adjust the items within the collection of html elements.

⇒ In this option, items will adjust the positions automatically.

Syntax: `$(selectors).sortable();`

Example: `$("#list1").sortable();`

<!-- create a webpage that allows the user to drag and resize the items by using jquery-ui -->

<html>

<head>

<script src = "jquery.js"> </script>

<script src = "jquery-ui.js"> </script>

<link href = "jquery-ui.css" rel = "stylesheet" />

<script>

\$(document).ready (function ()

{ \$.cl).draggable ();

\$("#div1").resizable ();

\$("#img1").resizable ();

});

</script>

<style>

.cl

{

width : 250px;

height : 180px;

border : 2px solid green;

}

#div1

{

border : 5px solid blue;

padding : 5px;

width : 350px;

}

</style>

</head>

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<body>

<h1> jquery-ui Demo - Interaction </h1>

<hr> <hr />

 </br>

<hr />

<div id = "div1">

This section is resizable using jquery ui.

</div>

 </br>

src = "images/image1.jpg" width = "200"

height = "120" border = "2" />

</body>

</html>

Ex:
Sortable: <!-- Createa HTML page to number puzzle
using jquery-ui sortable() -->

<html>

<head>

<script src =

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<script>

```
$(document).ready ( function ()  
  {  
    $("#list1"). sortable ();  
  }  
);
```

</script>

<style>

```
ul  
{  
  border : 2px solid Blue;  
  width : 170 px;  
  height : 170 px  
  padding : 5px;  
  list-style : none;  
}
```

ul li

```
{  
  width : 30px ; height : 30px ;  
  border : 2px solid Blue;  
  border-radius : 30px;  
  text-align : center ;  
  float : left ; margin : 5px ;  
  background-color : blue ;  
  color : white ;  
  font-size : 25px ;  
  padding : 5px ;  
  cursor : pointer ;  
}
```

</style>

</head>

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<body>

<h1> Number Puzzle - using Jquery </h1>

<hr>

<ul id = "list1">

4

9

8

5

2

3

0

1

7

</body>

</html>

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4. Selectable

⇒ By default list tags does not allow to select items in the list.

⇒ selectable() function of jquery will allow the user to select any item from page

Note:- To implement this feature you need to provide styles for selected item.

⇒ It will be based on css class: "ui-selected".

⇒ It also provides a event called "selected" to add any logic at the time of selection

Syntax:- \$(Selector). selectable();

Example: \$("#list1"). selectable();

```

<html>
<head>
  <body script src=

  < script

  < link

< script >
  $(document).ready(function()
  {
    $("#list1").selectable({
      selected: function()
      {
        var dname = $(".ui-selected").text();
        $("#spt").text("Selected Dept "+ dname);
      }
    });
  });
</script>

<style>
  .ui-selected
  {
    background-color: red;
    color: white;
  }
ul
{
  width: 300px;
  height: 100px;
  list-style: none;
  padding: 3px;
}

```

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```

ul li
{
width: 150px    height : 30px ;
border : 1px solid blue;
margin: 5px;    padding-top : 7px;
text-align : center;
background-color : pink;
cursor : pointer;
font-size : 20px;
font-weight : bold;
}

```

```

</style>

```

```

</head>

```

```

<body>

```

```

<h1> JQuery - ui Interactions - selectable </h1>

```

```

<br/>

```

```

<span id = "spt"> </span> <br>

```

```

<ul id = "list1">

```

```

    <li> Accounting </li>

```

```

    <li> Sales </li>

```

```

    <li> Operations </li>

```

```

    <li> Marketing </li>

```

```

</ul>

```

```

</body>

```

```

</html>

```

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jQuery-VI - Widgets

16 / Aug / 2016

- ⇒ jQuery-ui widgets several methods that you can be apply on div, list, buttons, inputs controls etc...
- ⇒ By using widgets we can apply additional UI related features like tabs, menus, collapsible panels etc...
- ⇒ Widgets also provides new controls like calendar for date selection.

Note:-

All jQuery-ui widgets are themable i.e. if you change the UI theme that will affects all widgets items

1. button()

- ⇒ It provide jquery-ui button styles.
- ⇒ It add additional styles on mouseover and mouseout events

Usage:- `$("#b1").button();`
`$("input:button").button();`

2. Accordion Panel

- ⇒ Accordion panel are also called collapsible panels.
- ⇒ In the same place we can organize multiple contents based on the selected panel.
- ⇒ IF you select one panel, remaining panels will be minimized (collapse) automatically.

Implementation:-

`$("#...").accordion();`

Implementation

```
<div id = "main">  
  <h3> heading </h3>  
  [  
    <div>  
      content ---  
    </div>  
    . . .  
    . . .  
  ]  
</div>
```

⇒ Apply accordion method to "main" division.

```
$("#main").accordion();
```

<!-- Uses of jQuery-UI buttons and accordion panel-->

```
<html>  
  <head>  
    <script src = "jquery.js"> </script>  
    <  
    <link  
  
    <script>  
      $(document).ready(function()  
      {  
        $("input:button").button();  
        $("#main").accordion(  
          {  
            active : 3,  
            event : "mouseover"  
          }  
        );  
      });  
    </script>  
  </head>
```

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```

<body>
<h1> jQuery-UI. Widgets - Buttons Accordion </h1>
<hr>
<input type="button" value="login" /> |
<input type="button" value="Register" /> |
<input type="button" value="Logout" />
<br></br>
<hr></hr>
<div id="main" style="width:400px;">
<h2> jQuery </h2>
<div>
    This is panel having jquery details...
</div>
<h2> Angular JS </h2>
<div>
    This is having AngularJS details...
</div>
<h2> PHP </h2>
<div>
    This is having PHP details..
</div>
...
</div>
</body>
</html>

```

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3) Tooltip

⇒ In HTML we can apply tooltip by using "title" attribute

eg:- `<input type="button" title="User Login"../>`

⇒ By using jquery-UI we can provide more richness to these tooltips

⇒ These method we can apply at document level, so that all html elements this option will be applicable

Usage:- `$(document).tooltip();`
`$("input:button").tooltip();`

4) Tabs:-

⇒ `tabs()` method allows use to organize the content into multiple tabs.

⇒ so that we can display different contents based on the selected tab

Usage: `$("#mainDiv").tabs();`

⇒ Prepare the required html tags to create tabs as follows:

```
<div id="main">
  <ul>
    <li><a href="#div1">Headings </a></li>
    <li><a href="#div2">Headings </a></li>
    ...
  </ul>
  <div id="div1"> ... </div>
  <div id="div2"> ... </div>
  ...
</div>
```

Note:-

1. To update default events , active tag:

```
$( "#main" ).tabs({  
    event: "mouseover",  
    active: 2  
});
```

<!-- Example on JQuery-UI tooltips and tab -->

```
<html>
```

```
<head>
```

```
<script src =
```

```
<script =
```

```
<link href = "jquery-ui.css" rel = "stylesheet" />
```

```
<script>
```

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

```
{
```

```
    $( "input: button" ). button();
```

```
    $( "input: button" ). tooltip();
```

```
    $( "#main" ). tabs();
```

```
});
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h1> JQuery-UI tooltip and tabs </h1>
```

```
<hr>
```

```
<input type = " button" title = " customer login"  
value = "login" /> |
```

```
<input type = " button" title = " Customer Registration"  
value = " register" /> |
```

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```
<input type = " button" title = " customer signout"
      value = "signout" />
```

```
<br>
```

```
<hr />
```

```
<div id = "div1" "main" style = "width: 100px;
                                height: 200px;" >
```

```
<ul>
```

```
<li> <a href = "#div1" > jquery </a> </li>
```

```
<li> <a href = "#div2" > AngularJS </a> </li>
```

```
...
```

```
</ul>
```

```
<div id = "div1">
```

This panel contain jquery details...

```
<img src = "image1.jpg"
      width = "100" height = "200" />
```

```
<p> ... </p>
```

```
</div>
```

```
<div id = "div2">
```

This is AngularJs details...

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

⇒ To Collaps . all panels.

active : false;

collapsible : true;

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17/Aug/2016

AutoComplete :-

- ⇒ AutoComplete function of jquery will show list of options suitable to the data that you type in the textbox:
- ⇒ It search the options based on the characters entered by user.
- ⇒ It will display all possible options from the given source (array)
- ⇒ source array need to be prepared as string array contains all possible options.

Ex: Usage:- `$(selector).autocomplete(
 {
 source: arrayname;
 });`

DatePicker :-

- ⇒ DatePicker function will provide month calendar control so that user can easily select the date.
- ⇒ selected date will display in the specified textbox.
- ⇒ In this control we can easily navigate between months, dates, years

Usage:- `$("#t1").datepicker();`

Note:- Use the following options to customize datepicker

1. `changeYear: true`
2. `changeDate: true`
3. `minDate: 0`
 `"-10D"`
4. `maxDate: 0`
 `"10D"`
 `"3M"`
5. `YearRange: "2002:2012"`

<!-- usages of autopicker and datepicker -->

<html>

<head>

<script

<script

<link

<script>

\$(document).ready(function()

{

Var courses = ["ASP", "ASP.NET", "MVC",

"C", "C++", "JAVA", "C#"

"JS", "Jquery", "AngularJs"];

\$("#t1").autocomplete({

Source : courses

});

\$("#t2").datepicker({

ChangeMonth : true,

ChangeYear : true,

});

});

</script>

</head>

<body>

<h1> Jquery-UI widgets - AutoComplete, DatePicker </h1>

<hr>

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```
<div>
Course Name: <input type="text" id="t1" />
<br><br>
Course start Date: <input type="text" id="t2" />
</div>
</body>
</html>
```

Menu:-

- ⇒ jquery-ui provides another useful function that makes menu preparation is more comfortable.
- ⇒ In order to implement menu in jquery we need prepare all the required options by using tag.
- ⇒ Apply "menu()" on tag

Syntax:- \$(selector).menu();

Example: \$("#list1").menu();

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Steps :-

- 1) Prepare the with required items. It may includes sub-levels (nested lists).
- 2) Apply menu() on tag using jquery.

<!-- Example on Menu Preparation Using JQuery-UI-->

<html>

<head>

<script

<script

<link

<script>

\$(document).ready(function()

{
 \$("#list1").menu();

}

});

</script>

<style>

ul {

 width: 180px;

}

ul li {

 width: 150px;

}

</style>

</head>

<body>

<h1> JQuery-UI- widgets Menu </h1>

<hr/>

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```

<ul id="list1">
  <li> <a href="demo.html"> </a> </li>
  <li> C++ </li>
    <ul>
      <li> C#.NET </li>
      <li> ASP.NET </li>
      <li> VB.NET </li>
    </ul>
  <li> Java </li>
    <ul>
      <li> Adv. Java </li>
      <li> Core Java </li>
      <li> Frameworks </li>
      <ul>
        <li> Spring </li>
        <li> Hibernate </li>
      </ul>
    </ul>
  <li> SQL server </li>
  <li> Oracle </li>
</ul>
</body>
</html>

```

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dialog :-

- ⇒ JQuery UI "dialog()" method used to display the content as dialog box.
- ⇒ we can apply this method to any tags like div, tables etc..
- ⇒ In any jquery events we can display the content as dialog box

Example:-

button click, hyperlink click, image click etc..

Usage:

```
$(selector).dialog();
```

```
$("#div1").dialog();
```

Note:-

1) Useful options

height: "430";

width: "600";

modal: true;

resizable: false;

draggable: false;

2) Dialog with effects

show: { effect: "explode", duration: 1000 }

hide: { effect: "explode", duration: 1000 }

3) Custom buttons to dialog box

```
buttons: [ { text: "close"
```

```
click: function() {
```

```
$("#img1").dialog("close");
```

```
}
```

```
}
```

```
]
```

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Q-- For dialog control -->

```
<html>
<head>
  <script src=
  <script
  <link
  <script>
    $(document).ready(function()
    {
      $("#img1").hide();
      $(".cl").mouseover(function()
      {
        $(this).css("opacity", "0.6");
      });
      $(".cl").mouseout(function()
      {
        $(this).css("opacity", "1");
      });
      $(".cl").click(function()
      {
        var str = $(this).attr("src");
        $("#img1").attr("src", str);

        $("#img1").dialog({
          width: "650",
          height: "400",
          draggable: false,
          resizable: false,
          modal: true,
```

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```

show : { effect : "explode", duration : 2000},
hide : { effect : "explode", duration : 2000},
button : [ { text : "Exit",
              click : function ()
              {
                $("#img1").dialog("close");
              }
            }
          ]
        });
    });

```

</script>

<style>

.cl

```

{
  height : 150px;
  width : 180px;
  border : 2px solid Red;
  padding : 5px;
  margin : 5px;
  cursor : pointer;
}

```

</style>

</head>

<body bgcolor = "lightYellow">

<h1> JQuery-UI widgets Demo </h1>

<hr> <hr />

:

 </br>

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```
<img src = "images/images5.jpg" class = "c1" />
<img class = "c1" src = "images/images6.jpg" />
:
<br> <br>
<img id = "img1" src = "images/image1.jpg" />
</body>
</html>
```

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JQuery - UI Effects.

18/Aug/2016

- ⇒ JQuery UI library that provides new set of methods related to applying effects to html elements
- ⇒ Most of the methods are overrides the existing methods of core jquery.
- ⇒ These methods will provide additional behaviour to our html elements
- ⇒ It can add more richness to your webpages by providing more visual effects.

Usages effect() function

- ⇒ JQuery-ui library provides a function called "effect()" which is used to apply different types of visual effects
- ⇒ we can apply this function on any html elements
- ⇒ It will apply at the time of show/hide an html element

Syntax:-

`$(selector). effect (`

`"effectName", → string type`

`options, → object type`

`duration, → int.(millisec)`

`callback-function); →`

* Details about effects method parameter

1. effectName:

- ⇒ It is a type of "string".
- ⇒ This string parameter specifies types of effect that you want to apply.

→ blind → bounce → clip → drop
→ explode → fade → fold → highlight
→ puff → pulsate → shake → slide
→ scale → size

2. options

- ⇒ It is object type.
- ⇒ We can specify additional options by if required.
it is object type

Eg: direction, mode.

3. duration

- ⇒ It is type integer i.e. Number (in millisec)

4. Callback function

- ⇒ If you want to execute any code after completion of the effect then we can use this function.

<!-- To apply All jquery-UI Effects -->

<html>

<head>

<script src =

<script

<link href =

<script>

\$(document).ready(function ()

{

\$("#sl").change(function()

{

var str = \$("#sl").val();

var options = {}; // empty obj.

if (str == "scale")

{

options = { percent: 50 } ; to give ~~the~~ size @ 50%

}

\$("#img1").effect(str, options, 3000,
function()

{

\$("#img1").show();

});

});

});

</script>

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```

<style>
    #img1
    {
        border: 1px solid green;
        height: 230px;
        width: 350px;
        padding: 5px;
    }
</style>
</head>
<body>
    <h1> JQuery-UI Effects Demo</h1>
    <hr><hr>
    Select Effect: <select id="st">
        <option> Fade </option>
        <option> blind </option>
        <option> scale </option>
        . . . . .
    </select>
    <br> </br>
    
</body>

```

<!-- Example To apply slide effect on image using
jquery-ui effects -->

```

<html>
    <head>
        <script
        <script
        <link href=

```

```
<script>
```

```
var n = 0;
```

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

```
{  $("#img1").hide();
```

```
    fl();
```

```
    setInterval ( fl, 5000);
```

```
});
```

```
function fl()
```

```
{  n++;
```

```
    if (n==8) { n=1; }
```

```
    var str = "images4/image"+n + ".png" ;
```

```
    $("#img1").attr ("src", str);
```

```
    $("#img1").effect ("slide", { direction: "right", }, 2000);
```

```
    $("#img1").effect ("slide", { direction: "left", mode: "hide",  
                                     2000});
```

```
}
```

```
</script>
```

```
</head>
```

```
<body background = "Bg-Road.png">
```

```
<img id = "img1" src = "images4.jpg"
```

```
    height = "100px" width = "200px" />
```

```
</body>
```

```
</html>
```

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jQuery-UI Effects - CSS Methods

19/Aug/2016

- ⇒ jQuery-UI provides special methods to add/remove CSS classes.
- ⇒ These methods are exists in core jQuery.
But jQuery-UI overrides these methods with more visual effects.

Methods:-

1. `addClass()`
2. `removeClass()`
3. `toggleClass()`

Usages:

Syntax: `$(selector).methodName(parameters);`

Parameters:-

1. class name
2. duration
3. easing option
4. callback function.

Note:- Examples of Easing Options

1. Bounce
 2. Elastic
- etc...

Usage :-

`easeInBounce,`
`easeOutBounce,`
`easeInOutBounce.`

<!-- create a webpage to apply css class with easing options by jquery-ui -->

<html>

<head>

<script

<script

<link

<script>

\$(document).ready (function ()

{

\$("#b1").click (function ()

{

\$("#img").addClass ("c1", 3000,
"easeInOutBounce");

});

\$("#b2").click (function ()

{

\$("#img").removeClass ("c1", 3000,
"easeInOutBounce");

});

});

</script>

<style>

img

{ height: 100px;

width: 100px;

margin: 20px;

}

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```
• c1
{
  height : 200px;
  width : 200px;
}
```

```
</style>
```

```
</head>
```

```
</script>
```

```
<body> <h1> ... </h1> <hr/>
```

```
<input type="button" id="b1" value="add effcd">
```

```
<input type="button" id="b2" value="remove effcd">
```

```
<hr/>
```

```

```

```

```

```

```

```
</body>
```

```
</html>
```

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JQuery-UI-Themes

- ⇒ jquery-ui provides different types of themes to make jquery-ui items more colourful
- ⇒ These themes can be downloaded from jquery-ui theme roller page:

Url: <http://jqueryui.com/themeroller>

- ⇒ Download the theme file and copy required files in your project folders.
- ⇒ create separate folder for each theme and place following files:
 1. jquery-ui.css
 2. [images] Folder

Example: <!-- create a webpage to change theme dynamically by using jquery-ui themes -->

→ [Theme1]
 ↳ images
 ↳ jquery-ui.css

→ [Theme2]
 ↳ images
 ↳ jquery-ui.css

...

→ jquery.js
→ jquery-ui.js
→ ThemesDemo.html

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<html>

<script src = "jquery.js" > </script>

<script src = "jquery-ui.js" > </script>

<link href = "Theme2/jquery-ui.css" rel = "stylesheet" />

<script>

\$(document).ready (function ()

{

\$("#input:button").button();

\$("#main").accordion (

{

active: false,

collapsible: true.

});

\$("#d1").datepicker();

\$("#b1").click (function ()

{

\$("#link").attr ("href", "Theme1/jquery-ui.css");

});

\$("#b2").click (function ()

{

\$("#link").attr ("href", "Theme2/jquery-ui.css");

});

\$("#b3").click (function ()

{

\$("#link").attr ("href", "Theme3/jquery-ui.css");

});

});

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```

</script>
</head>
<body>
  <h1>
  <hr/>
  <input type="button" id="b1" value="Theme1" />
  <input type="button" id="b2" value="Theme2" />
  <input type="button" id="b3" value="Theme3" />
  <br></br>
  <hr></hr>
  <div id="d1">
  </div>
  <br></br>
  <div id="main" style="width: 400px;">
    <h2> jQuery </h2>
    <div>
      This is panel1 ...
    </div>
    <h2> Angular Js </h2>
    <div> This is panel2 ... </div> ...
  </div>
</body>
</html>

```

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jQuery Plug-ins

20/Aug/2016

- ⇒ Additional libraries that are developed based on jquery library are called "jquery plug-ins".
- ⇒ These plug-ins are developed by third party companies / developers.
- ⇒ jquery team is provides a plug-ins called jquery-ui
- ⇒ simillarly there are so many plug-ins are available in internet
- ⇒ IF you want to use any jquery plug-in you need to download from corresponding files from that web site
- ⇒ we need to download the following files in most of the jquery plug-ins
 1. *.js File related to plugin
 2. *.css File related plugin
 3. required images
 4. jquery library

jquery plugin websites:

1. <http://bxslider.com/>
 2. <http://www.elevatweb.co.uk/image-zoom>
 3. <http://jqueryvalidation.org/>
- etc...

Example:- To Create slide show by using bxslider plugin

Hint: Download required files from the below website.

<http://bxslider.com>

Required Files:

1. jquery.bxslider.js
2. jquery.bxslider.css
3. [images] - bxslider images
4. [images] - oue images
5. jquery - 3.1.0.js
6. Demot.html

Example html >

< head >

<script src = "jquery-3.1.0.js">

</script>

<script src = "jquery.bxslider.js">

</script>

<link href = "jquery.bxslider.css" rel = "stylesheet"/>

<style>

img

{ width: 100%;
height: 300px;
}

</style>

<script>

\$(document).ready (function()

{

\$('.bxslider').bxSlider({

auto: true,

autoControls: true

});

});

</script> </head>

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```
<body>
  <h2> JQuery Plugins demo </h2>
  <hr>
  <ul class = "bxslider">
    <li> <img src = "image1.jpg" /> </li>
    <li> <img src = "image2.jpg" /> </li>
    .
    .
    .
  </ul>
</body>
</html>
```

JQuery Zooming Plug-ins

- ⇒ This plugin is used for zooming the selected area of the image
- ⇒ It zooms the portion that we hover the image.
- ⇒ Download the zip file and copy the following item.
 1. [images]
 2. jquery.elevateZoom.js

URL: <http://www.elevateweb.co.uk>

Example:-

create a webpage to zoom the specified area of image based on mouseover using jquery zooming plugins

```
<html>
<head>
  <script src = " jquery-3.1.0.js" > </script>
  <script src = " jquery.elevateZoom.js" >
</script>
```

```
<script>
```

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

```
{  $("#img1").elevateZoom(
```

```
    {  tint: true,  
      tintColor: 'yellow',  
      tintOpacity: 0.2
```

```
    });
```

```
});
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h2> jquery plugin - Elevate zoom </h2>
```

```
</head>
```

```

```

```
</body>
```

```
</html>
```

Note:-

options to change the zoom type:-

```
zoomType: "lens",
```

```
lensShape: "round",
```

```
lensSize: 200
```

⇒ we have to put this option in `elevateZoom()` method according to our requirement.

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22 / Aug / 2016

JQuery Validation Plugin

- ⇒ Basic jquery libraries doesnot provide any methods/properties to perform validations.
- ⇒ Performing validation is one of the primary activity in client side programming
- ⇒ To implement jquery based validations, we need to download special validations jquery plugin in from below website.

<http://jqueryvalidations.org>

Required file: `jquery.validate.js`

Note (Implementation)

- ⇒ Validations rules are implemented by using validate() method.
- ⇒ Use the following properties to prepare validation rules
 1. required : true
 2. email : true
 3. min: 20 , max: 40
 4. minlength: 3 , maxlength: 10
 5. equalTo: TextBoxName

Note:-

- 1) Validations are applied based input control names.
- 2) Use messages property to provide user defined error message.

```

messages: {
    t1: { required: "error Message"},
    t2: { min: "error Message"
          max: "error Message" }
}

```

<!-- create a webpage to perform validations
using jquery validation plugin -->

```

<html>
  <head>
    <script src="jquery-3.1.0.js">
    </script>
    <script src="jquery.validate.js">
    </script>
    <script>
      $(document).ready(function()
      {
        $("#form1").validate(
          {
            rules: {
              txtUname: { required: true },
              txtPass1: { required: true },
              txtPass2: { required: true,
                           equalTo: txtPass1 },
              txtEmail: { email: true },
              txtAge: { min: 20, max: 40 },
              txtCity: { minlength: 3, maxlength: 10 }
            },

```

```
messages: {
```

```
    txtVname: { required: "User name is required field";
```

```
    txtPass2: { required: "Retype Password is  
                required field",
```

```
    equalTo: "Password and retype password should  
              be same" }
```

```
    }
```

```
});
```

```
});
```

```
</script>
```

```
<style>
```

```
    .error { color: Red; }
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1> JQuery Validation Plugin Demo </h1>
```

```
<br />
```

```
<form id="Form1" action="" method="post">
```

```
<fieldset>
```

```
    User Name :
```

```
        <input type="text" id="txtVname"  
              name="txtVname" />
```

```
        <br></br>
```

```
    Password :
```

```
        <input type="password" id="txtPass1"  
              name="txtPass1" />
```

```
        <br></br>
```


Retype Password:

```
<input type="password" id="txtPass2"  
      name="txtPass2" />
```

```
<br></br>
```

Email Id:

```
<input type="email" id="txtEmail"  
      name="txtEmail" />
```

```
<br></br>
```

Age:

```
<input type="text" id="txtAge" x  
      name="txtAge" /> <br></br>
```

City: <input type="text" id="txtCity"
 name="txtCity" />

```
<br></br>
```

```
<input type="submit" value="Submit User Details" />
```

```
</fieldset>
```

```
</form>
```

```
</body>
```

```
</html>
```

<!-- create a webpage that allow user to drag and drop add that element in table like shopping cart-->

<html>

<head>

<script src = "jquery-3.1.0.js"> </script>

<script src = "jquery-ui.js"> </script>

<link href = "jquery-ui.css" rel = "stylesheet" />

<script>

var products = [];

\$(document).ready (function ()

{

\$(".item"). draggable (

{

helper : "clone"

});

\$("#div1"). droppable (

{

drop : function (event, source)

{

var obj = {} ;

obj.pname = source.draggable.find("p").
eq(0).text();

obj.price = source.draggable.find("p").
eq(1).text();

obj.qty = 1;

updateData (obj); // For table data this need

updateTable (products); // For give dom manipuler

}); };

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// Add selected items to product array

Function updateData (obj)

```
{
    var isExist = false;
    for (i = 0 ; i < products.length ; i++)
    {
        if ( products[i].pname == obj.pname)
        {
            products[i].qty = products[i].qty + 1;
            isExists = true;
        }
    }
    if ( isExist == false)
    {
        products.push (obj);
    }
}
```

// To add the selected data in table & display it

Function updateTable (ar)

```
{
    $("#table1 tr").not(".header").remove();
    var total = 0;
    for (i = 0 ; i < ar.length ; i++)
    {
        var n = ar[i].price * ar[i].qty;
        total = total + n;
        var str = "<tr>";
        str = str + "<td>" + ar[i].pname + "</td>";
        str = str + "<td>" + ar[i].price + "</td>";
        str = str + "<td>" + ar[i].qty + "</td>";
    }
}
```


Interview Questions - JQuery

23/Aug/2016

Q: What is jquery & features of jquery?

Q: How javascript and jquery are different?

Q: Is JQuery is replacement of java script? No

Q: What does dollar sign (\$) means in jquery?

\$ is alias name of jquery() → is called Factory function/method

Q: How to create One-Time Event in jquery?

⇒ we have to use special method "One" insted...

ex:- `$("#b1").One("click", function())`

Ans ⇒ One Time Event in jquery is implemented by using one() method

⇒ This method attach a function to an event that will executes only once.

`$("#b1").One("click", function()`

`{ alert("Hello"); });`

Q: What is CDN ? Examples? Ans ⇒ last page of book

Q: Can we use multiple document.ready() on the same page? Yes

Q: window.load() vs document.ready()?

⇒ window.load() :- This method/event occurs when all the html elements are loaded in the memory with content
⇒ we can write only one window.load() event handling code.

document.ready() :- we can write multiple document.ready() events in the same page it will occurs when the elements are ready (structure) in memory. No need to wait for the content to be loaded.

Q: Difference betⁿ $\$(this)$ and $this$ keywords in jquery?

Ans \Rightarrow $\$(this)$ \rightarrow (jquery)

1) $\$(this)$ is a selector in jquery used to refer current items

2) $\$(this)$ can access all jquery functions.

$\$(this).val()$

$\$(this).effect()$

$this$ \rightarrow (javascript)

1) " $this$ " is javascript keyword to refer current obj.

2) " $this$ " can access only javascript functions/properties
 $this.value$;

$this.innerHTML$; (for innerText @ HTML methods)

Q: What is chaining in jquery?

Q: How to iterate each item from the result of selector?

(or) Diffⁿ betⁿ $eq()$ and $each()$? (Dom Traversing)

Ans \Rightarrow Chaining :-

chaining allow us to run multiple jquery methods (on the same selector) within the single statement

Example :- $\$("input:button").button().tooltip();$

Q: Can we use multiple Javascript libraries in same web page? \Rightarrow Yes.

Q: what is $jquery.noConflict()$ function?

Q: Can we use our own specific character in the place of $\$$ sign in jquery?

\Rightarrow Var $\$n$ = $jquery.noConflict();$

$\$n$ (document).ready (function()

{ $\$n$ ("div").hide(); });

15 Q > What does `$("div.Hello")` will select?

Ans → It selects the tags which are having hello class name under the div tag.

16 Q > What are the different types of selector in jquery?

17 Q: Difference betⁿ `empty()`, `remove()`, `detach()`?

Ans → `empty()` - It remove all child nodes

`remove()` - it removes the current node and its child nodes.

`detach()` - it keep all jquery data associated with the remove elements

Note:- `detach()` method is useful when removed elements are to be reinserted into the DOM at a later time.

Usage: `var obj = $(selector).detach();`

18 Q > Select all textbox in the page? `$(input:text)`.

19 Q > Select all rows except the header row? → note

20 Q > How to close all the panels in according

jquery-ui

Ans: `$(...).accordion({ active: false, collapsible: true });`

FAQ - Current Interview.

Q1: what is event for button and dropdown list?

Q2: Diffⁿ betⁿ `each()` and `eq()`?

Q3: Diffⁿ betⁿ focus and blur event?

Q4: Syntax for filter function in jquery.

Q5: What is DOM traversing?

Q6: What are structure Based methods and Explain them?