**Jquery – task**

**a) What is jQuery?**

* jQuery is a lightweight, "write less, do more", JavaScript library.
* The purpose of jQuery is to make it much easier to use JavaScript on your website.
* jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.
* jQuery also simplifies a lot of the complicated things from JavaScript, like AJAX calls and DOM manipulation.

**b) How are JavaScript and jQuery different?**

|  |  |
| --- | --- |
| It is a javascript library. | It is a dynamic and interpreted web-development programming language. |
| The user only need to write the required jQuery code | The user needs to write the complete js code |
| It is less time-consuming. | It is more time consuming as the whole script is written. |
| It depends on the JavaScript as it is a library of js. | jQuery is a part of javascript. Thus, the js code may or may not depend on jQuery. |
| It is quite an easy, simple, and fast approach. | It is a weakly typed programming approach. |

**c) Which is the starting point of code execution in jQuery?**

$(document).ready() function.

**d) Document Load Vs Window. Load() jQuery**

The key difference between $(document). ready() and $(window). load() event is that the code included inside onload function will run once the entire page(images, iframes, stylesheets,etc) are loaded whereas the $(document). ready() event fires before all images,iframes etc.

**e) What is the difference between prop and attr?**

**prop :**

 This method returns the current value.

This method is mainly used when the user wants to change the value for an HTML tag’s attribute.

It changes properties for that HTML tag as per the DOM tree.

Its syntax is -:

$(selector).prop(property)

It takes three parameters Property , value and a function.

**Attr:**

This method returns the default value

This method is mainly used to set the default value for an HTML tag’s attribute.

It changes attributes for that HTML tag.

Its syntax is -:

$(selector).attr(attribute)

It takes three parameters an attribute, value, and a function.

**f) Explain Difference Between JQuery And JavaScript?**

**javascript :**

JavaScript is the programming language of the Web.

  It is a high-level interpreted client-side scripting language.

JavaScript is slow in creating DOM.

The code can be complicated, as well as long.

**Jquery:**

It is a light-weight JavaScript library.

jQuery creates DOM faster.

It contains only a few lines of code.

**g) How We Can Select The Specified <li> Element From The List Of <li> Elements In <ul>?**

<ul>

  <li>One</li>

  <li>Two</li>

  <li class="hilite">Three</li>

  <li>Four</li>

</ul>

<ul>

  <li>Five</li>

  <li>Six</li>

  <li>Seven</li>

</ul>

<ul>

  <li>Eight</li>

  <li class="hilite">Nine</li>

  <li>Ten</li>

  <li class="hilite">Eleven</li>

</ul>

<p>Unique siblings: <b></b></p>

<script>

var len = $( ".hilite" ).siblings()

  .css( "color", "red" )

  .length;

$( "b" ).text( len );

</script>

**h) In <table> Design Change The Color Of Even <tr> Elements To**

**“green”And Change The Color Of Odd <tr> Elements To “blue” Color?**

**Give An Example Code?**

<html>

<head>

<title></title>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script>

$(document).ready(function(){

  $("button").click(function(){

    $("td:odd").css("background-color", "blue");

$("td:even").css("background-color", "green");

  });

});

</script>

</head>

<body>

<table border="2 px" width="10%" align="center">

<tr>

<th>numbers</th>

</tr>

<tr>

<td>1</td>

</tr>

<tr>

<td id="td">2</td>

</tr>

<tr>

<td id="td">3</td>

</tr>

<tr>

<td id="td">4</td>

</tr>

<tr>

<td id="td">5</td>

</tr>

<tr>

<td id="td">6</td>

</tr>

<tr>

<td id="td">7</td>

</tr>

<tr>

<td id="td">8</td>

</tr>

<tr>

<td id="td">9</td>

</tr>

<tr>

<td id="td">10</td>

</tr>

<tr><td><button>Submit</button></td></tr>

</table>

</body>

</html>

**i) How We Can Implement Animation Effects In Jquery?**

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

**Syntax:**

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

**j) Apply  jQuery validation using library.**

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<title>Untitled Document</title>

<!-- 3 file call -->

<script src="jquery-2.1.3.min.js" type="text/javascript"></script>

<script src="jquery.bvalidator.js" type="text/javascript"></script>

<link href="bvalidator.css" type="text/css" rel="stylesheet" />

<!-- add script & call FORM id -->

<script type="text/javascript">

    $(document).ready(function () {

        $('#form1').bValidator();

    });

</script>

<script>

// now fore direct validation from above file u take data-bvalidator="" from the file "jquery.bvalidator.js"

// allways take <form id=""  in jquery with #name

</script>

</head>

<body>

<BR>

<BR>

<BR>

<BR>

<BR>

<form id="form1" action="" method="" >

<table  align="center">

                <tr>

             <th>User Fist Name:-</th>

                    <td><input type="text" name="ufn" data-bvalidator="required,alpha" ></td>

                </tr>

                <tr>

             <th>User Name:-</th>

                    <td><input type="text" name="un" data-bvalidator="required,rangelength[3:8]" ></td>

                </tr>

                <tr>

             <th>Password:-</th>

                    <td><input type="password" id="pass" name="pass" data-bvalidator="required,minlength[4],maxlength[8]"></td>

                </tr>

              <tr>

             <th>Confirm Password:-</th>

                    <td><input type="password" name="cpass" data-bvalidator="required,equalto[pass]" ></td>

                </tr>

                <tr>

             <th>Email Address:-</th>

                    <td><input type="text" name="email" data-bvalidator="required,email" ></td>

                </tr>

                <tr>

             <th>Phone No:-</th>

                    <td><input type="text" name="pno" data-bvalidator="required,number" > </td>

                </tr>

<tr>

             <th>Pincode No:-</th>

                    <td><input type="text" name="pno" data-bvalidator="required,number"  ></td>

                </tr>

                <tr>

                 <td><input type="submit" name="submit" class="btn btn-primary"/></td>

                </tr>

            </table>

        </form>

</body>

</html>

**k) Create custom dynamic function for require field validator.**

-> <!--Name can't be blank-->

$('#contact\_name').on('input', function() {

var input=$(this);

var is\_name=input.val();

if(is\_name){input.removeClass("invalid").addClass("valid");}

else{input.removeClass("valid").addClass("invalid");}

});

<!--Email must be an email -->

$('#contact\_email').on('input', function() {

var input=$(this);

var re = /^[a-zA-Z0-9.!#$%&'\*+/=?^\_`{|}~-]+@[a-zA-Z0-9-]+(?:\.[a-zA-Z0-9-]+)\*$/;

var is\_email=re.test(input.val());

if(is\_email){input.removeClass("invalid").addClass("valid");}

else{input.removeClass("valid").addClass("invalid");}

});

**l) Get state data by country selection (Ajax).**

**m) Image uploading with preview**

The preview image feature lets the user view the selected image before upload. With this feature, the image is displayed on the webpage immediately a file is selected by an input field. Preview image before upload is a very useful feature for the file upload functionality. The preview file helps the user to make sure before uploading the file on the server, and change the chosen image file if needed. From the user perspective, it is very helpful for uploading a perfect image or file without doing the repetitive upload.

$("#file").change(function () {

    filePreview(this);

});