Ex. No. 07	**Website Design With JQuery Actions**
16.02.2024	

Aim

To create web page using HTML, CSS, JQuery actions.

Description jQuery:

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

DOM manipulation.:

The jQuery library contains the following features:

- HTML/DOM manipulation

- CSS manipulation

- HTML event methods

- Effects and animations

- AJAX

- Utilities -

Adding jQuery to a Web Page

- There are several ways to start using jQuery on your web site. You can:
- Download the jQuery library from jQuery.com
- Include jQuery from a CDN, like Google
- Downloading jQuery
- Production version - this is for your live website because it has been minified and compressed

- Development version - this is for testing and development (uncompressed and readable code)

The jQuery library is a single JavaScript file, and you reference it with the HTML

1.<script> tag (notice that the <script> tag should be inside the <head> section):

2.<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.4/jquery.min.js"></script>

Effects:

1.show(): Displays hidden elements with a default or specified animation.

Syntax: $(selector).show();

2. hide(): Hides visible elements with a default or specified animation.

Syntax: $(selector).hide();

3.toggle(): Toggles between showing and hiding elements with a default or specified animation.

Syntax: $(selector).toggle();

4. fadeIn(duration): Fades in the selected elements over a specified duration. **Syntax:**

$(selector).fadeIn(duration);

Source Code:

1.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
```

```
<script src="https://code.jquery.com/jquery-3.6.4.min.js"></script>

</head>

<body>

  <label for="i1">Total Amount</label>

  <input type="text" id="i1">

  <br>

  <label for="i2">Room Rent</label>

  <input type="text" id="i2">

  <br>

  <label for="i3">Accessories</label>

  <input type="text" id="i3">

  <br>

  <label for="i4">Emergency</label>

  <input type="text" id="i4">

  <br>

  <label for="i5">Saving</label>

  <input type="text" id="i5">


  <button id="evaluate">Evaluate</button>


  <div id="result">

    <p>Room Rent: <span id="r1"></span></p>

    <p>Accessories Rent: <span id="r2"></span></p>

    <p>Emergency Rent: <span id="r3"></span></p>

    <p>Savings Rent: <span id="r4"></span></p>
```

```
</div>

<script>
  $(document).ready(function(){
    $("#evaluate").click(function(){
      var totalAmount = $("#i1").val();

      var roomRent = $("#i2").val();

      var accessories = $("#i3").val();

      var emergency = $("#i4").val();

      var saving = $("#i5").val();


      if(totalAmount && roomRent && accessories && emergency && saving){
        var res1 = totalAmount * (roomRent / 100);

        var res2 = totalAmount * (accessories / 100);

        var res3 = totalAmount * (emergency / 100);

        var res4 = totalAmount * (saving / 100);


        $("#r1").text(res1);

        $("#r2").text(res2);

        $("#r3").text(res3);

        $("#r4").text(res4);
      } else {
        alert("Please enter all values.");

      }
    });
```

```
        });

    </script>

</body>

</html>
```

Output:

```
Total Amount [                    ]
Room Rent    [                  ]
Accessories  [                  ]
Emergency    [                ]
Saving       [                    ] [ Evaluate ]

Room Rent:

Accessories Rent:

Emergency Rent:

Savings Rent:
```

2.

```
<!DOCTYPE html>

<html lang="en">

<head>

 <meta charset="UTF-8">

 <meta name="viewport" content="width=device-width, initial-scale=1.0">

 <title>Style Manipulation and Effects with jQuery</title>

 <style>

  #box {

    width: 100px;

    height: 100px;
```

```
    background-color: #3498db;

    margin: 20px;

  }

 </style>

 <script src="https://code.jquery.com/jquery-3.6.4.min.js"></script>

</head>

<body>


<div id="box"></div>


<button onclick="changeColor()">Change Color</button>

<button onclick="increaseSize()">Increase Size</button>

<button onclick="toggleBorder()">Toggle Border</button>


<button onclick="showEffect()">Show</button>

<button onclick="hideEffect()">Hide</button>

<button onclick="toggleEffect()">Toggle</button>


<button onclick="fadeInEffect()">Fade In</button>

<button onclick="fadeOutEffect()">Fade Out</button>

<button onclick="fadeToggleEffect()">Fade Toggle</button>


<button onclick="slideUpEffect()">Slide Up</button>

<button onclick="slideDownEffect()">Slide Down</button>

<button onclick="slideToggleEffect()">Slide Toggle</button>
```

```
<button onclick="animateEffect()">Animate</button>
<script>
 function changeColor() {
   $('#box').css('background-color', getRandomColor());
 }
 function increaseSize() {
   let newSize = $('#box').width() * 1.5;
   $('#box').width(newSize).height(newSize);
 }
 function toggleBorder() {
   $('#box').toggleClass('bordered');
 }
 function showEffect() {
   $('#box').show();
 }
 function hideEffect() {
   $('#box').hide();
 }


 function toggleEffect() {
   $('#box').toggle();
 }


 function fadeInEffect() {
```

```
  $('#box').fadeIn();

}


function fadeOutEffect() {

  $('#box').fadeOut();

}


function fadeToggleEffect() {

  $('#box').fadeToggle();

}

function slideUpEffect() {

  $('#box').slideUp();

}

function slideDownEffect() {

  $('#box').slideDown();

}

function slideToggleEffect() {

  $('#box').slideToggle();

}

function animateEffect() {

  $('#box').animate({

    left: '+=50px',

    opacity: 0.5,

    height: 'toggle'

  }, 1000);
```

```
}


// Function to generate a random color

function getRandomColor() {

  const letters = '0123456789ABCDEF';

  let color = '#';

  for (let i = 0; i < 6; i++) {

    color += letters[Math.floor(Math.random() * 16)];

  }

  return color;

}
```
</script>

</body>

</html>

Output:

Result:

        Thus, the following code has been written and implemented to create a web applications using JQuery to showcase Styles, Effects and Animations.