

Lab 5: To understand working on jQuery

Theory:

Exercises

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>jQuery Selector Lab</title>
  <style>
    /* Add your CSS styles here */
    .highlight {
      background-color: yellow;
    }

    .external-link {
      color: red;
    }

    .list-item {
      font-weight: bold;
    }

    .parent > * {
      background-color: lightblue;
    }

    .content p:first-child {
      font-size: 18px;
    }

    .content p:last-child {
      font-size: 24px;
    }
  </style>
</head>
<body>
  <div class="content">
    <p>This is the first paragraph of content.</p>
    <p>This is the second paragraph of content.</p>
    <p>This is the third paragraph of content.</p>
  </div>
  <div class="external-links">
    <p>External link 1</p>
    <p>External link 2</p>
    <p>External link 3</p>
  </div>
  <div class="list">
    <p>List item 1</p>
    <p>List item 2</p>
    <p>List item 3</p>
  </div>
  <div class="parent">
    <p>Parent 1</p>
    <p>Parent 2</p>
    <p>Parent 3</p>
  </div>
</body>
</html>
```

```
    /* Add more styles as needed */
</style>
</head>
<body>

    <div id="header">This is the header</div>

    <p class="highlight">This is a highlighted paragraph. Click me!</p>

    <ul id="myList">
        <li>List item 1</li>
        <li>List item 2</li>
        <li>List item 3</li>
    </ul>

    <div class="parent">
        <p>Child 1</p>
        <p>Child 2</p>
        <p>Child 3</p>
    </div>

    <div class="content">
        <p>First paragraph</p>
        <p>Second paragraph</p>
        <p>Third paragraph</p>
    </div>

    <table>
        <tr>
            <td>Row 1</td>
        </tr>
        <tr>
            <td>Row 2</td>
        </tr>
        <tr>
            <td>Row 3</td>
        </tr>
    </table>

    <button id="hideButton">Hide Items</button>

    <form>
        <input type="text" name="username" value="JohnDoe">
```

```

<input type="text" name="email" value="john@example.com">
<input type="checkbox" name="subscribe" checked>
<input type="checkbox" name="agree">
<select id="countryList">
  <option value="usa">USA</option>
  <option value="canada">Canada</option>
  <option value="uk">UK</option>
</select>
<textarea name="comments">Enter your comments here</textarea>
<button type="submit">Submit</button>
</form>

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

<!-- Add your jQuery script here -->
<script>
  $(document).ready(function () {
    // Your jQuery code for the exercises goes here
  });
</script>

</body>
</html>

```

From the above HTML, perform the following using jQuery:

jQuery Selector and Events:

1. Select and Change Color:
 - a. Write the jQuery code to select all paragraphs on the webpage and change their text color to green.
2. Toggle Class on Click:
 - a. Explain how the jQuery code toggles the class "active" on elements with the class "highlight" when they are clicked.
3. Alert Header Text:
 - a. Provide the jQuery code to find and alert the text content of the element with the ID "header."

4. Change Color on Click:
 - a. Describe how the jQuery script attaches a click event to the highlighted paragraph (class `highlight`) and changes its text color to blue when clicked.
5. Form Submission Alert:
 - a. Explain the jQuery code that prevents the default behavior of the form submission and alerts a message like "Form submitted!" when the form is submitted.

Hide/Show and jQuery Fade:

6. Toggle Content Button:
 - a. Write the jQuery code for the "Toggle Content" button, explaining how it toggles the visibility of the content inside the div with the ID "content."
7. Fade Out and Fade In Buttons:
 - a. Describe how the "Fade Out" and "Fade In" buttons work. Explain the jQuery code that fades out and fades in the content inside the div with the ID "content."

Add/Remove Elements:

8. Add List Item Button:
 - a. Provide the jQuery code for the "Add List Item" button, explaining how it appends a new `` element to the ul with the ID "myList."
9. Replace Content Button:
 - a. Explain the jQuery code for the "Replace Content" button, describing how it replaces the existing content inside the div with the ID "content" with a new `<p>` element containing different text.

jQuery Get and Set CSS Classes:

10. Retrieve Classes Script:
 - a. Write the jQuery script to retrieve all classes applied to an element with the ID "exampleElement."
11. Get First Element with Class:
 - a. Explain how the jQuery code gets the first element with the class "targetClass" and logs its HTML content to the console.
12. Add Highlight Class:

- a. Provide the jQuery script to add the class "highlight" to all paragraphs on the page.
13. Remove Inactive Class:
- a. Describe the implementation of the function that removes the class "inactive" from all elements with the class "removeClass."
14. Replace Class Script:
- a. Write the jQuery script that replaces the class "oldClass" with "newClass" for a specific element