

# Mannat Nandi/43/SE2/B3

## Experiment 4

### Aim:

Develop a dynamic webpage where content updates on button click using JavaScript DOM. Implement jQuery effects: hide/show elements, toggle visibility, and animate elements.

### Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Lab Experiment: JS & jQuery</title>
    <script src="https://code.jquery.com/jquery-3.7.1.min.js"></script>
    <link href="https://fonts.googleapis.com/css2?family=Press+Start+2P&display=swap"
    rel="stylesheet">

<style>
    body {
        background-color: #eee;
        font-family: 'Press Start 2P', cursive;
        padding: 40px;
        color: #000;
    }

    .container {
        background: #fff;
        border: 4px solid #000;
        max-width: 600px;
        margin: 0 auto;
        padding: 20px;
        box-shadow: 8px 8px 0px #000;
    }

    .header {
        border-bottom: 4px solid #000;
        margin: -20px -20px 20px -20px;
        padding: 20px;
        background: #ffff00;
        text-align: center;
    }

    .display-box {
        border: 4px solid #000;
        padding: 15px;
    }
</style>
```

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```
margin-bottom: 20px;
background: #fafafa;
min-height: 180px;
}

#circle-obj {
    width: 40px;
    height: 40px;
    background: #ff0000;
    border: 3px solid #000;
    border-radius: 50%;
    margin: 20px auto;
}

.controls {
    display: flex;
    flex-direction: column;
    gap: 10px;
}

button {
    background: #fff;
    border: 3px solid #000;
    font-family: 'Press Start 2P', cursive;
    font-size: 10px;
    padding: 10px;
    cursor: pointer;
    text-align: left;
}

button:hover {
    background: #000;
    color: #fff;
}

h1 { font-size: 14px; margin: 0; }
h2 { font-size: 12px; margin-top: 0; }
p { font-size: 10px; line-height: 1.6; }

</style>
</head>
<body>

<div class="container">
    <div class="header">
        <h1> DOM & JQUERY </h1>
    </div>
```

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```
<div id="content-panel" class="display-box">
  <h2 id="text-title">Initial State</h2>
  <p id="text-desc">This panel demonstrates DOM manipulation and jQuery
effects.</p>

  <div id="circle-obj"></div>
</div>

<div class="controls">
  <button id="btn-dom">1. Update Text (JS DOM)</button>
  <button id="btn-hide">2. Hide Panel (jQuery)</button>
  <button id="btn-show">3. Show Panel (jQuery)</button>
  <button id="btn-toggle">4. Toggle Panel (jQuery)</button>
  <button id="btn-anim">5. Animate Circle (jQuery)</button>
</div>
</div>

<script>
  const domButton = document.getElementById('btn-dom');

  domButton.onclick = function() {
    const title = document.getElementById('text-title');
    const desc = document.getElementById('text-desc');

    title.textContent = "DOM UPDATED!";
    desc.textContent = "The document was modified using native JavaScript methods./";

    title.style.color = "#ff0000";
  };

  $(document).ready(function() {

    $('#btn-hide').click(function() {
      $('#content-panel').hide(300);
    });

    $('#btn-show').click(function() {
      $('#content-panel').show(300);
    });

    $('#btn-toggle').click(function() {
      $('#content-panel').toggle(200);
    });

    $('#btn-anim').click(function() {
```

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```
$('#circle-obj')
    .animate({ width: '100px', height: '100px', opacity: 0.4 }, 500)
    .animate({ width: '40px', height: '40px', opacity: 1 }, 500);
};

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

## Output:

## DOM & JQUERY

**Initial State**  
This panel demonstrates DOM manipulation and jQuery effects.



1. Update Text (JS DOM)
2. Hide Panel (jQuery)
3. Show Panel (jQuery)
4. Toggle Panel (jQuery)
5. Animate Circle (jQuery)

## DOM & JQUERY

**DOM UPDATED!**  
The document was modified using native JavaScript methods.



1. Update Text (JS DOM)
2. Hide Panel (jQuery)
3. Show Panel (jQuery)
4. Toggle Panel (jQuery)
5. Animate Circle (jQuery)

**DOM & JQUERY**

1. Update Text (JS DOM)
2. Hide Panel (jQuery)
3. Show Panel (jQuery)
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**DOM & JQUERY**

**DOM UPDATED!**  
The document was modified using native JavaScript methods.



A small red circle centered in the white area below the message.

1. Update Text (JS DOM)
2. Hide Panel (jQuery)
3. Show Panel (jQuery)
4. Toggle Panel (jQuery)
5. Animate Circle (jQuery)