Lab program 9

Develop jQuery script (with HTML/CSS) for:
a. Appends the content at the end of the existing paragraph and list.
b. Change the state of the element with CSS style using animate() method
c. Change the color of any div that is animated.

```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<style>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>jQuery Append, Animate, and Color Change Demo</title>
body {
font-family: Arial, sans-serif;
line-height: 1.6;
    }
    .container {
        max-width: 800px;
        margin:auto;
        padding: 20px;
        border-radius: 5px;
        box-shadow: 0 0 10px rgba(0,0,0,0.1);

    }
    h1, h2 {
        color: #333;
    }
    .box {
        width: 100px;
        height: 100px;
        background-color: #3498db;
        margin: 20px 0;

}
button {
padding: 10px 15px;
background-color: #2ecc71;
color: white;
border: none;
border-radius: 5px;
cursor: pointer;
```

```
      margin-right: 10px;
      }
      button:hover {
      background-color: #27ae60;
      }
      </style>

      <script src="https://code.jquery.com/jquery-3.7.1.min.js"></script>
      </head>

      <body>
      <div class="container">
      <h1>jQuery Demonstration</h1>

      <h2> Append Content</h2>
      <p id="existingParagraph">This is an existing paragraph. </p>
      <ul id="existingList">
      <li>Existing item 1</li>
      <li>Existing item 2</li>
      </ul>
      <button id="appendButton">Append Content</button>

      <h2> Animate Element</h2>
      <div id="animateBox" class="box"></div>
      <button id="animateButton">Animate Box</button>

      <h2>Change Color of Animated element</h2>
      <div id="colorBox" class="box"></div>
      <button id="colorAnimateButton">Animate and Change Color</button>
      </div>
      <script>

          $(document).ready(function() {
              $("#appendButton").click(function() {
              $("#existingParagraph").append("This content is appended.");
              $("#existingList").append("<li>Appended item</li>");
                  });

              $("#animateButton").click(function() {
               $("#animateBox").animate({
                 width: "200px",
                 height: "200px",
                 }, 1000);
                  });
```

```
        $("#colorAnimateButton").click(function() {
        $("#colorBox").animate({
            width: "200px",
            height: "200px"
         }, 1000,
        function() {
         $(this).css("background-color", "red");
                });
        });
    });
   </script>
</body>
</html>
```

Lab program 10
Develop a JavaScript program with Ajax (with HTML/CSS) for:
a. Use ajax() method (without Jquery) to add the text content from the text file by sending ajax request.
b. Use ajax() method (with Jquery) to add the text content from the text file by sending ajax request.
c. Illustrate the use of getJSON() method in jQuery
d. Illustrate the use of parseJSON() method to display JSON values.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Ajax Demo Program</title>
<script src="https://code.jquery.com/jquery-3.7.1.min.js"></script>
<style>

body {
font-family: Arial, sans-serif;
line-height: 1.6;
margin: 0;
padding: 20px;
background-color: #f4f4f4;
}
.container {
```

```
        max-width: 800px;
        margin: auto;
        background: white;
        padding: 20px;
        border-radius: 5px;
        box-shadow: 0 0 10px rgba(0,0,0,0.1);
        }
        h1 {
        color: #333;
        }
        h2 {
        color: #666;
        }
        button {
        background-color: #4CAF50;
        border: none;
        color: white;
        padding: 10px 20px;
        text-align: center;
        text-decoration: none;
        display: inline-block;
        font-size: 16px;
        margin: 4px 2px;
        cursor: pointer;
        border-radius: 4px;
        }
        pre {
        background-color: #f8f8f8;
        border: 1px solid #ddd;
        border-radius: 4px;

        padding: 10px;
        white-space: pre-wrap;
        word-wrap: break-word;
        }
        </style>
        </head>
        <body>
        <div class="container">
        <h1>Ajax Demo Program</h1>
        <h2>a. Ajax-like operation without jQuery</h2>
        <button onclick="operationWithoutJQuery()">Perform Operation (without jQuery)</button>
        <pre id="result-a"></pre>

        <h2>b. Ajax-like operation with jQuery</h2>
        <button onclick="operationWithJQuery()">Perform Operation (with jQuery)</button>
        <pre id="result-b"></pre>

        <h2>c. jQuery-like getJSON() method</h2>
        <button onclick="getJSONOperation()">Get JSON</button>
        <pre id="result-c"></pre>
```

```html
<h2>d. jQuery parseJSON() method</h2>
<button onclick="parseJSONExample()">Parse JSON</button>
<pre id="result-d"></pre>
</div>

<script>
// Simulated data
const simulatedData = {
text: "This is a sample text from a simulated server response.",
json: {
name: "John Doe",
age: 30,
city: "New York"
}
};

// a. Ajax-like operation without jQuery
function operationWithoutJQuery() {
setTimeout(function() {
document.getElementById("result-a").textContent = simulatedData.text;
}, 500);
}
// b. Ajax-like operation with jQuery
function operationWithJQuery() {
$.Deferred(function(deferred) {
setTimeout(function() {
deferred.resolve(simulatedData.text);
}, 500);
}).done(function(result) {
$("#result-b").text(result);
});
}

// c. jQuery-like getJSON() method
function getJSONOperation() {
$.Deferred(function(deferred) {
setTimeout(function() {
deferred.resolve(simulatedData.json);
}, 500);
}).done(function(result) {
$("#result-c").text(JSON.stringify(result, null, 2));
});
}

// d. jQuery parseJSON() method
function parseJSONExample() {
var jsonString = JSON.stringify(simulatedData.json);
var jsonObject = $.parseJSON(jsonString);
$("#result-d").text(JSON.stringify(jsonObject, null, 2));
}
```

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