

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://cdnjs.cloudflare.com/ajax/libs/jquery/3.6.0/jquery.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>
```

```
<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>
```