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<!DOCTYPE html>
<html>
<head>
<title>AJAX Lab Program</title>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
<style>
body { font-family: Arial, sans-serif; background: #f4f4f4; margin: 0; padding: 20px; }

.container { max-width: 700px; margin: auto; background: #fff; padding: 20px; border-radius: 7px; box-shadow: 0 6px 20px rgba(0,0,0,0.1);}

button { display:inline-block; padding:8px 16px; border:none; background:#007bff; color:#fff; margin:6px 0; border-radius:5px; font-size:15px; cursor:pointer; }

button:hover { background:#0056b3; }

#output {background:#f1f1f1;margin-top:15px;padding:10px; border-radius:4px;min-height:40px; }

</style>
</head>
<body>
<div class="container">
<h1>AJAX Lab Examples</h1>
<button id="plain-ajax-btn">Load Text (Plain AJAX)</button>
<button id="jquery-ajax-btn">Load Text (jQuery AJAX)</button>
<button id="jquery-json-btn">Load JSON (getJSON)</button>
<button id="parse-json-btn">Load and Parse JSON</button>
<div id="output"></div>
</div>
<script>
// a. Plain AJAX (Vanilla JS)

document.getElementById('plain-ajax-btn').onclick = function() {
    var xhr = new XMLHttpRequest();
    xhr.open('GET', 'textfile.txt', true);
    xhr.onload = function() {
        if (xhr.status === 200) {
            document.getElementById('output').innerText = xhr.responseText;
        }
    }
}

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    } else {
        document.getElementById('output').innerText = 'Error loading file.';
    }
};

xhr.send();
};

// b. AJAX with jQuery
$('#jquery-ajax-btn').click(function() {
    $.ajax({
        url: 'textfile.txt',
        method: 'GET',
        success: function(data) {
            $('#output').text(data);
        },
        error: function() {
            $('#output').text('Error loading file.');
        }
    });
});

// c. Use of getJSON in jQuery
$('#jquery-json-btn').click(function() {
    $.getJSON('data.json', function(data) {
        $('#output').html('<pre>' + JSON.stringify(data, null, 2) + '</pre>');
    }).fail(function() {
        $('#output').text('Error loading JSON file.');
    });
});

// d. Use of parseJSON to display values (jQuery parseJSON is deprecated, use JS parse)
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$('#parse-json-btn').click(function() {
    $.ajax({
        url: 'data.json',
        method: 'GET',
        success: function(data) {
            let jsonData = (typeof data === 'string') ? JSON.parse(data) : data;
            // Display specific values
            let html = '<ul>';
            Object.keys(jsonData).forEach(function(key) {
                html += '<li>' + key + ': ' + JSON.stringify(jsonData[key]) + '</li>';
            });
            html += '</ul>';
            $('#output').html(html);
        },
        error: function() {
            $('#output').text('Error loading or parsing JSON file.');
        }
    });
});

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