EXPT8 - AJAX with HTML, XML and JSON data

books.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content=
"width=device-width, initial-scale=1.0">
  <title>Books</title>
</head>
<body>
  <h1>Books</h1>
  <div id="htmlBooks">
    <h2>HTML Books</h2>
    <div class="book">
      <h3>HTML Book 1</h3>
      <p><strong>Author:</strong> John Doe</p>
      <p><strong>Price:</strong> $20</p>
    </div>
    <div class="book">
      <h3>HTML Book 2</h3>
      <p><strong>Author:</strong> Jane Smith</p>
      <p><strong>Price:</strong> $25</p>
    </div>
    <div class="book">
      <h3>HTML Book 3</h3>
      <p><strong>Author:</strong> Mark Johnson</p>
      <p><strong>Price:</strong> $15</p>
    </div>
  </div>
</body>
</html>
```

books.json

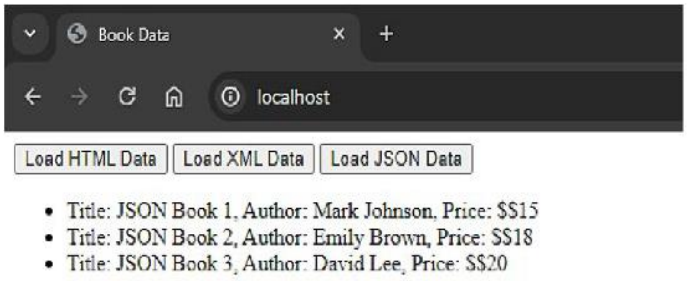
```
{
  "books": [
    {
      "title": "JSON Book 1",
      "author": "Mark Johnson",
      "price": "$15"
    },
    {
      "title": "JSON Book 2",
      "author": "Emily Brown",
      "price": "$18"
    },
    {
      "title": "JSON Book 3",
      "author": "David Lee",
      "price": "$20"
    }
  ]
}
```

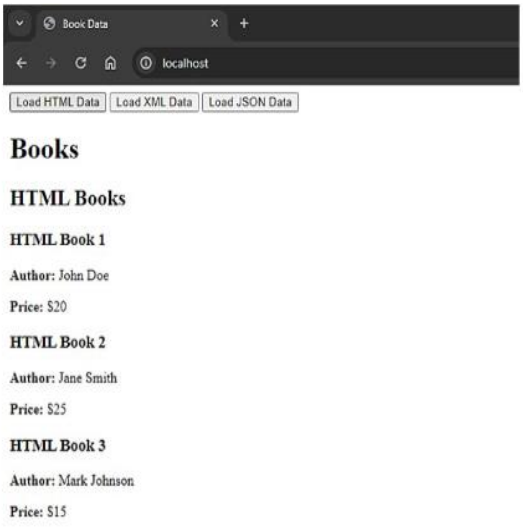
books.xml

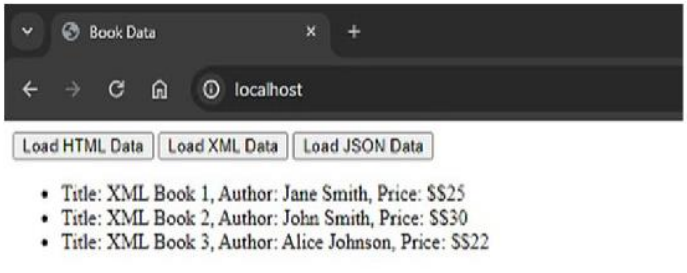
```
<books>
  <book>
    <title>XML Book 1</title>
    <author>Jane Smith</author>
    <price>$25</price>
  </book>
  <book>
    <title>XML Book 2</title>
    <author>John Smith</author>
    <price>$30</price>
  </book>
  <book>
    <title>XML Book 3</title>
    <author>Alice Johnson</author>
    <price>$22</price>
  </book>
</books>
```

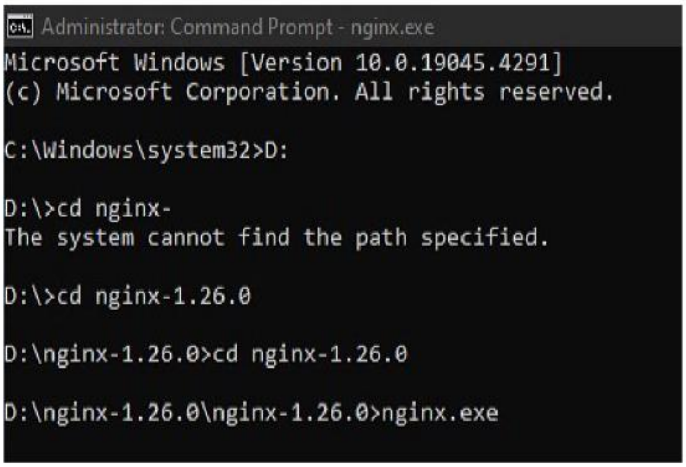
index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Book Data</title>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<script>
$(document).ready(function() {
  $("#htmlButton").click(function() {
    $.ajax({
      url: "books.html",
      dataType: "html",
      success: function(data) {
        $("#result").html(data);
      }
    });
  });
  $("#xmlButton").click(function() {
    $.ajax({
      url: "books.xml",
      dataType: "xml",
      success: function(data) {
        var result = "<ul>";
        $(data).find("book").each(function() {
          var title = $(this).find("title").text();
          var author = $(this).find("author").text();
          var price = $(this).find("price").text();
          result += "<li>Title: " + title + ", Author: " + author + ", Price: $" + price + "</li>";
        });
        result += "</ul>";
        $("#result").html(result);
      }
    });
  });
  $("#jsonButton").click(function() {
    $.ajax({
      url: "books.json",
      dataType: "json",
      success: function(data) {
        var result = "<ul>";
        $.each(data.books, function(index, book) {
          result += "<li>Title: " + book.title + ", Author: " + book.author + ", Price: $" + book.price + "</li>";
        });
        result += "</ul>";
        $("#result").html(result);
      }
    });
  });
});
</script>
</head>
<body>
<button id="htmlButton">Load HTML Data</button>
<button id="xmlButton">Load XML Data</button>
<button id="jsonButton">Load JSON Data</button>
<div id="result"></div>
</body>
</html>
```


Book Data
localhost
Load HTML Data
Load XML Data
Load JSON Data
Title: JSON Book 1, Author: Mark Johnson, Price: $$15
Title: JSON Book 2, Author: Emily Brown, Price: $$18
Title: JSON Book 3, Author: David Lee, Price: $$20


Book Data
localhost
Load HTML Data
Load XML Data
Load JSON Data
Books
HTML Books
HTML Book 1
Author: John Doe
Price: $20
HTML Book 2
Author: Jane Smith
Price: $25
HTML Book 3
Author: Mark Johnson
Price: $15


Book Data
localhost
Load HTML Data
Load XML Data
Load JSON Data
Title: XML Book 1, Author: Jane Smith, Price: $$25
Title: XML Book 2, Author: John Smith, Price: $$30
Title: XML Book 3, Author: Alice Johnson, Price: $$22


Administrator: Command Prompt - nginx.exe
Microsoft Windows [Version 10.0.19045.4291]
(c) Microsoft Corporation. All rights reserved.
C:\Windows\system32>D:
D:\>cd nginx-
The system cannot find the path specified.
D:\>cd nginx-1.26.0
D:\nginx-1.26.0>cd nginx-1.26.0
D:\nginx-1.26.0\nginx-1.26.0>nginx.exe

EXPT7 – jQuery

change_button_colour.html

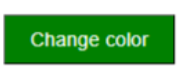
```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Change Color Button</title>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<style>
 .btn {
  padding: 10px 20px;
  font-size: 16px;
  cursor: pointer;
 }
</style>
</head>
<body>
<button id="colorBtn" class="btn">Change color</button>
<script>
 $(document).ready(function() {
  $('#colorBtn').mouseover(function() {
   $(this).css('color', 'red');
   $(this).css('background-color', 'white');
  });
  $('#colorBtn').mouseout(function() {
   $(this).css('color', 'white');
   $(this).css('background-color', 'green');
  });
 });
</script>
</body>
</html>
```

OUTPUT

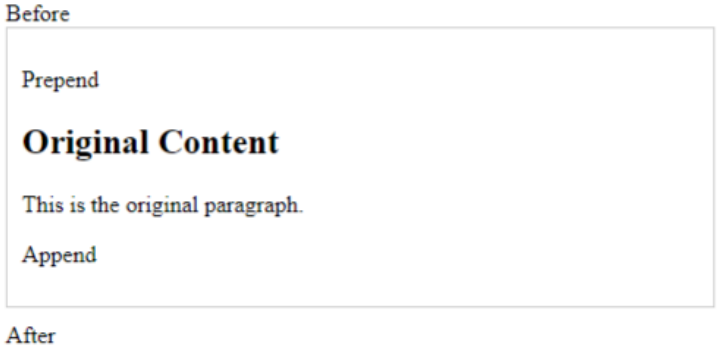
1. Default:

2. Mouse Over

3. Mouse Out



insert_elements.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>jQuery Inserting Elements</title>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<style>
 .container {
  border: 1px solid #ccc;
  padding: 10px;
  margin-bottom: 10px;
 }
</style>
</head>
<body>
<div class="container">
 <h2>Original Content</h2>
 <p>This is the original paragraph.</p>
</div>
<script>
 $(document).ready(function(){
  $('.container').before('<div>Before</div>');
  $('.container').after('<div>After</div>');
  $('.container').prepend('<p>Prepend</p>');
  $('.container').append('<p>Append</p>');
 });
</script>
</body>
</html>
```

OUTPUT