JavaScript Basics-05

In this lab assignment you will use loops, conditional statements, arrays, and functions in JavaScript to work with an online shopping cart.

1. Create a new project in NetBeans called ShoppingCartJS. Download the starter project from the LMS and copy/paste it into your new project.

2. Create a new repository on GitHub, link it to your project, and perform an initial commit and push.

3. Open the starter project HTML file (chapter08-project01.html) and review how it looks.

4. Examine the data file data.js. It contains four arrays that we are going to use to programmatically generate the data rows (and replace the hard-coded markup supplied in the HTML file).

5. Open the JavaScript file functions.js and create a function called calculateTotal() that is passed a quantity and price and returns their sum (i.e., multiply the two parameter values and return the result).

6. Within functions.js, create a function called outputCartRow() that has the following signature:
    *   function outputCartRow(file, title, quantity, price, total) {}

7. Implement the body of this function. It should use document.write() calls to display a row of the table using the passed data. Use the toFixed() method of the number variables to display two decimal places.

8. Replace the three cart table rows in the original markup with a JavaScript loop that repeatedly calls this outputCartRow() function. Put this loop within the chapter08-project01.js file. Add the appropriate <script> tag to reference this chapter08-project01.js file within the <tbody>element.

9. Calculate the subtotal, tax, shipping, and grand total using JavaScript. Replace the hard-coded values in the markup with your JavaScript calculations. Use 10% as the tax amount. The shipping amount should be $40 unless the subtotal is above $1000, in which case it will be $0.

Final Page

Replace markup with JavaScript loop using supplied array data

Create function to output single cart row

Replace markup with calls to functions

Create functions to calculate these values