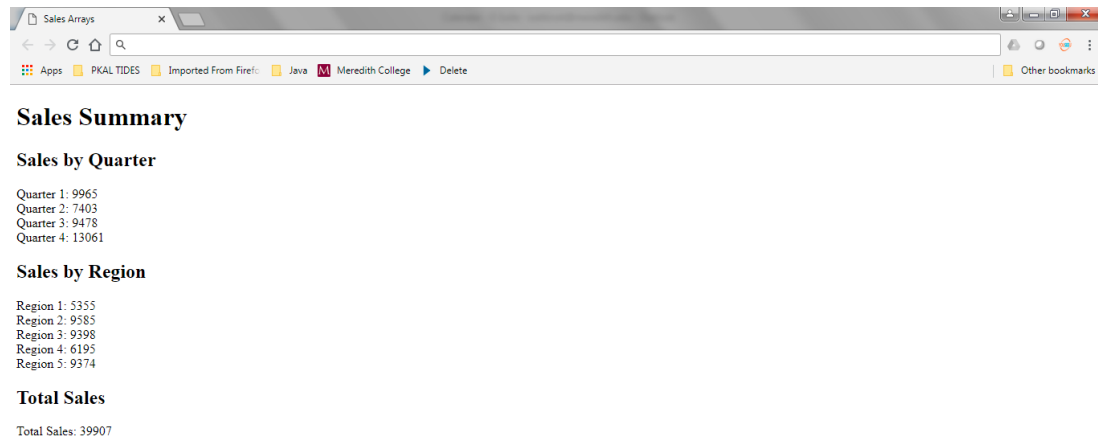# Lab 2-1 Use a Sales array

In this exercise, you'll start with five arrays that represent sales regions, and each array contains four values that represent the quarterly sales for the region. You will write code to summarize the sales data on a web page with the following content/format:

1. Start with the HTML and JavaScript files in the sales_array folder.

2. In the JavaScript file, note that five arrays are declared with four values in each. Each of these arrays represents one sales region, and each of the values in an array represents one sales quarter. For instance, the sales for the third quarter in region 3 were 2710.

3. Write the code for calculating the necessary values and displaying the values as shown.

Lab 2-2 Develop the Sales Tax Calculator

In this exercise, you'll develop an application that calculates the sales tax and invoice total after the user enters the subtotal and tax rate.

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1. Start with the HTML and JavaScript files in the sales_tax folder.

2. In the JavaScript file, note that the $ function has been coded for you. It gets the object for the HTML element that's specified by the id attribute.

3. Code an event handler (function) named processEntries() that gets the user entries, calculates the sales tax and total, and displays those results in the text boxes.

4. Code an onload event handler that attaches the processEntries() function to the click event of the Calculate button. Then, test what you have so far.

5. Add data validation to the processEntries() function. The subtotal entry should be a valid, positive number that's less than 10,000. The tax rate should be a valid, positive number that's less than 12. The error messages should be displayed in alert dialog boxes, and the error messages should be:

   Subtotal must be a number > 0 and < 10000
   Tax Rate must be a number > 0 and < 12

6. Add JavaScript that moves the cursor to the Subtotal field when the application starts and when the user clicks on the Calculate button.

7. Add the JavaScript event handler for the click event of the Clear button. This should clear all text boxes and move the cursor to the Subtotal field.

8. Add JavaScript event handlers for the click events of the Subtotal and Tax Rate text boxes. Each handler should clear the data from the text box.

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