Chapter Review

10-15b Apply: Case Problem 1

Data Files needed for this Case Problem: tc_cart_txt.html, tc_cart_txt.js, tc_order_txt.js, 2 CSS files, 8 PNG files

Trophy Case Sports Sarah Nordheim manages the website for Trophy Case Sports, a sports memorabilia store located in Beavercreek, Ohio. She has asked you to work on creating a script for the shopping cart page. The script should take information on the items that the customer has purchased and present it in table form, calculating the total cost of the order. A preview of the page you will create is shown in Figure 10-35.

Figure 10-35

Trophy Case Sports shopping cart

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Sarah has already designed the page layout. Your job will be to use JavaScript to enter the order information (this task will later be handled by a script running on the website) and to write a script that generates the HTML code for the shopping cart table.

Complete the following:

1

Use your editor to open the **tc_cart_txt.html**, **tc_cart_txt.js** and **tc_order_txt.js** files from the html10 ► case1 folder. Enter ***your name*** and ***the date*** in the comment section of each file, and save them as **tc_cart.html**, **tc_cart.js** and **tc_order.js** respectively.

2

Go to the **tc_cart.html** file in your editor. Directly above the closing `</head>` tag, insert `script` elements to link the page to the tc_order.js and tc_cart.js files in that order. Defer the loading and running of both script files until after the page has loaded.

3

Scroll down the file and directly below the h1 heading titled “Shopping Cart” insert a `div` element with the ID cart.

4

Save your changes to the file and go to the **tc_order.js** file in your editor.

5

Within the tc_order.js file, you will create arrays containing information on a sample customer order. Create an array named **item** that will contain the ID numbers of the items purchased by the customer. Add the following four item numbers to the array: 10582, 23015, 41807, and 10041.

6

Create an array named **itemDescription** containing the following item descriptions:

1975 Green Bay Packers Football (signed), Item 10582

Tom Landry 1955 Football Card (unsigned), Item 23015

1916 Army-Navy Game, Framed Photo (signed), Item 41807

Protective Card Sheets, Item 10041

7

Create an array named **itemPrice** containing the following item prices: 149.93, 89.98, 334.93, and 22.67.

8

Create an array named **itemQty** containing the following quantities that the customer ordered of each item: 1, 1, 1, and 4.

9

Save your changes to the file, and then open the **tc_cart.js** file in your editor.

10

In your script, you will calculate a running total of the cost of the order. Declare a variable named **orderTotal** and set its initial value to 0.

11

Declare a variable named cartHTML that will contain the HTML code for the contents of the shopping cart, which will be displayed as a table. Set its initial value to the text string:

```
<table>
<tr>
<th>Item</th><th>Description</th><th>Price</th><th>Qty</th><th>Total</th>
</tr>
```

12

Create a `for` loop that loops through the entries in the item array. Each time through the loop, execute the commands described in Steps a through e.

Add the following HTML code to the value of the cartHTML variable

```
<tr>
<td><img src='tc_item.png' alt='item' /></td>
```

where *item* is the current value from the item array.

Add the following HTML code to the cartHTML variable to display the description, price, and quantity ordered of the item

```
<td>description</td>
<td>$price</td>
<td>quantity</td>
```

where *description* is the current value from the itemDescription array, *price* is the current value from the itemPrice array preceded by a $ symbol, and *quantity* is the current value from the itemQty array.

Declare a variable named **itemCost** equal to the *price* value multiplied by the *quantity* value for the current item.

Add the following HTML code to the cartHTML variable to display the cost for the item(s) ordered, completing the table row

```
<td>$cost</td></tr>
```

where *cost* is the value of the itemCost variable, preceded by a $ symbol.

Add the value of the itemCost variable to the orderTotal variable to keep a running total of the total cost of the customer order.

13

After the `for` loop has completed, add the following HTML code to the value of the cartHTML variable, completing the shopping cart table

```
<tr>
<td colspan='4'>Subtotal</td>
<td>$total</td>
</tr>
</table>
```

where *`total`* is the value of the orderTotal variable, preceded by a $ symbol.

14

Apply the cartHTML value to the inner HTML of the `div` element with the ID cart.

15

Document your script file with appropriate comments, and then save your work.

16

Open the **tc_cart.html** file in your browser and verify that the page now shows the shopping cart data for the sample customer order.