INFO-1272 JavaScript

LAB 5

Due Date: Friday March 15, 11:59 pm

Submission Directions: FOL Submissions folder, Lab 5

Lab Description:

You will create an online grocery store that will allow the customer to select a department to shop from and add items from that department to their cart. The webpage will also allow new items to be added to the department's selection of items.

1. Download "StartingCode_Lab5" from the FOL Content page under "Lab 5", rename the html file with your first name followed by an underscore and then "Lab5". For example: "Alex_Lab5.html".
   The starting code will look like this:

Grocery Store

Department

○ Produce

○ Bakery

○ Meats

○ Cheese

Products Available

[Select a Department]

Add Product: [   ] [Add Product]

Shopping Cart

Add Item # [Select Department ▾] to Cart: [Add to Cart]

Remove item from cart: [   ] [Remove]

[Add an Item to Cart]

2. Create an array for each department (4 total) in global scope with the following values:

Produce	Apple, Banana, Mango, Grape, Pear, Broccoli
Bakery	Baguette, Pumpkin Pie, Chocolate Cookies
Meat	Beef, Chicken, Ham, Turkey
Cheese	Cheddar, Swiss, Gouda, Havarti, Asiago

3. Create an **empty** array for the shopping cart in global scope.

4. Create and implement the following functionality for each of these functions. You may create more helper functions if desired:

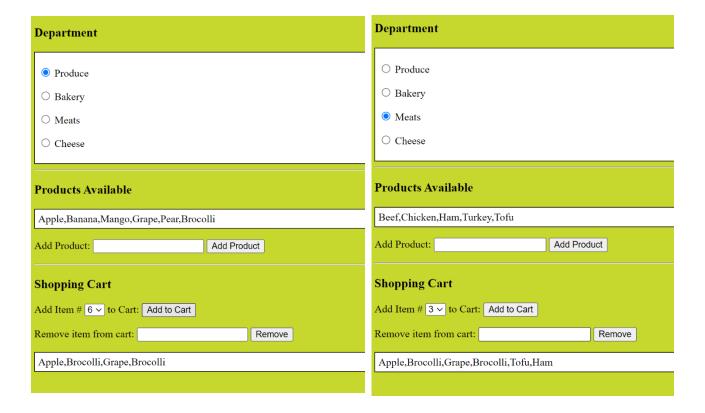|	
displayProducts() *Once implemented, you should be able to select a radio button and the corresponding arrays contents be displayed in the output div.*	*This function is triggered when the user selects one of the Department radio buttons. This will check the currently selected Department and output the corresponding array to the output area.* • Enable the "Add to Cart" button • Determine which department is selected using the radio buttons checked property. • Output the array associated with the selected department to the productOutput div. • Call the function **changeItemDropDown**. I have provided this function for you. It will adjust the options in the **itemNumDropdown** element to reflect the selected array for you. It accepts an argument for the total number of elements in the array. o to use this function, pass the total number of elements in the selected array as the argument for the function.
addProduct() *Once implemented you should be able to enter an item in the textbox and add it to the selected department array. The output should automatically update after adding.*	*The user will select one of the departments to view. They will then enter a new product in the textbox and click the Add Product button to add it to the selected departments array.* • Read the value from the product textbox. • Determine which department is selected using the radio buttons checked property. • Add this product to the Selected Department's corresponding array. • **Only** add the product if it doesn't exist in the Department's corresponding array • Clear the textbox value after the product is added. • Call the **displayProducts()** function.

addItemToCart()	*The user will select a number from the dropdown box. This number is relative to the products in the array for the Selected Department.* • Read the selected value from the dropdown box using the value property. • Determine which department is selected using the radio buttons checked property. • Add the item from the array at the corresponding index to the shopping cart. • Output the cart array to the **cartOutput** div.
removeItem()	*The user will type a product. It will remove the product from the cart only if it is in the cart.* • Read the value entered by the user. • Remove the element from the cart if it is in the cart. • Update the cart array in the **cartOutput** div.

Department

○ Produce

○ Bakery

● Meats

○ Cheese

Products Available

Beef,Chicken,Ham,Turkey,Tofu

Add Product: [   ] [Add Product]

Shopping Cart

Add Item # [3 ∨] to Cart: [Add to Cart]

Remove item from cart: [   ] [Remove]

Apple,Brocolli,Grape,Brocolli,Tofu,Ham

Department

● Produce

○ Bakery

○ Meats

○ Cheese

Products Available

Apple,Banana,Mango,Grape,Pear,Brocolli

Add Product: [   ] [Add Product]

Shopping Cart

Add Item # [6 ∨] to Cart: [Add to Cart]

Remove item from cart: [   ] [Remove]

Apple,Brocolli,Grape,Brocolli

Rubric:

Marks Available	Marks Awarded For	Comments
2	**Array Declarations** • Array names make sense • Arrays are declared correctly	
2	**Display Products** • Selected Department outputs the corresponding array • changeItemDropDown function is called and passed correct value	
4	**Add Product** • Product is added to Selected Departments corresponding array • Product textbox is cleared after product is added • Only adds product if it doesn't exist already • displayProduct function is called	
2	**Add item to Cart** • Adds correct items to cart array • Outputs cart correctly	
1	**Remove item from Cart** • Removes item from cart array if it's in the array	
1	**Style:** • Comments – All processes commented • Formatting – Good variable names, code cleanliness	
1	• Page does not throw any errors on load and during runtime	
13	**Total**	