Reflection

The first bug I encountered had to do with updating the total cost based on the items stored in local storage. In solving this bug, I learned that careful programming and line-by-line review of code is very useful even in javascript and lack thereof can be very frustrating. This bug was due to the misplacement of a declaration, which caused the totalCost calculation to be impeded by the lack of declaration of the products dictionary in local storage. The developer tools were also really helpful in catching this bug.

The largest bug that I found outside of this was that I couldn't figure out how to detect the remove item buttons for items that had already been added to cart. I struggled with this for hours and still couldn't come up with a solution. As of right now I believe that my remove item function should work, but I have not been able to test it yet because I have not been able to get my remove from cart buttons to respond.

Outside of these two bugs, my experience building a cart was relatively smooth. I hope to carry over the careful programming and time taken to learn concepts that I used here to projects in the future.

Programming Concepts

1. Local Storage: I learned local storage by using it to store my total number of items, items stored in the cart, and total cost variables. These variables were all stored in local storage and updated according to items added to the cart.

2. Dictionaries: I learned about dictionaries in javascript by using a dictionary in local storage to store the items that were in my cart.

3. Loops: I learned about loops in javascript by using loops to align the products added to cart with their index in the variable I had set up to store all the items offered on the website.

4. Events: I learned about events in JS by using onclick events with my buttons such that they edited the cart and made it responsive to a user's selection.

5. in-line HTML additions: I learned about in-line HTML additions with JS because I used this feature of JS to add items to my cart. I set up the initial framework for the cart then added items to this framework using in-line HTML additions.