Reflection

One of the biggest issues that I ran into was the add to cart function. Even though I was using JSON to store in local storage, all of the information was lost when I moved from the product detail page to the shopping cart page. After looking through my code for a while, I realized that I was pushing the items in the cart after storing it to local storage. This problem was fixed after I put the lines for JSON at the end of the add to cart function.

Another issue was that on the products detail page, the radio buttons initialize as the first options, so when a user doesn't make any choices for the quantity and glazing options, the array printed as undefined. I fixed this problem by adding two if statements such that if the elements in the array are undefined, they are set to the first value of the options (quantity and glazing).

Finally, a small but very impactful bug that made me struggle for a few days was syntax error. I forgot to add one closing curly bracket at the end of a function for one of the options (q1()). On the console, it showed an error saying that not only q1() wasn't a defined function, but also that the rest of the functions q2(), q3(), q4(), g1(), etc. weren't as well. I was trying to figure out why they weren't working, only to realize that it was a simple syntax error. I experienced the danger of silent syntax errors through this bug.

Programming concepts

1) Changing innerHTML
- I learned that you can change the contents of a page without making another HTML file for it. I used innerHTML on the shopping cart page to make the page reflect the choices that users make instead of making different pages for every single possible option. I initially was lost on how I would go about doing the shopping cart page, but after Monday's lab, I realized that using innerHTML was the most efficient way to display the shopping cart information based on the user's choices.

2) Web Storage
- Using localStorage and JSON.parse, I was able to save objects such as the options that users choose and retrieve them again to be reflected on the shopping cart page.

3) How to get JS to work with HTML
- There was a moment of slight confusion because I forgot to add onload="showCart();" to the body tags in all of the pages. I learned that even for storage, you need to have the JS loaded on all HTML files in order to have it stored.

4) Objects
- I learned how to declare an object (such as bun) and give it its own properties (quantity, glazing, price). It was really useful when it came to adding to cart and displaying it on

the shopping cart page.

5) For loops
- Using for loops was useful when it came to going through the items in the cart array to display on the shopping cart. I used a for loop with the length of the items in the cart to go through each item and show its properties.