Reflection

challenge 1: in assignment 6a, I use the getElementByClassName function to determine which item is added to the cart. But in assignment 6B, I find that function doesn't work anymore with local storage.

Solution: I create an array of objects and track the user pressing the button. By getting the parent object, I can know which item the user is selecting. By comparing the parent object (the product) with the objects in the array, I can add specific information about the product added to the cart.

Challenge 2: I'm sure that the codes are correct, but the browser cannot function well.

Solution: With the help of TA, I recognize that the local storage stores my previous codes. I have updated the codes, but the wrong memory still remains in the local storage. That reminds me that every time I update the codes with storage, I should check if the previous memories are deleted.

Concept 1: Model-View-Controller (MVC) model. For example, in my project, the model is data stored in local storage, the controller is the buttons for users to click, and the view is the interface of the cart.

Concept 2: Abstraction and Information Hiding. For example, the Application Programming Interface (API) is a way to enforce information hiding.

Concept 3: Separation of concerns. For example, this assignment deal with the cart. I separate them by creating multiple functions, including adding to the cart, calculating the total amount, and removing items.

Concept 4: Hierarchical Organization. For example, to track which item the user selects, I use the hierarchy organization to get the parent item of the button that the user presses.

Concept 5: Object-oriented programming. For example, I create an array of objects to store information about each product.