COMSATS University Islamabad

Attock Campus

Department of Computer Science

**MAD**

**Class Assignment #01**

**Program : BSSE-7**

**Submitted To:**

**Mr Muhammad Kamran**

**Submitted By:**

**Wajeeha Habib**

**FA21-BSE-016**

**Introduction:**

The objective of this assignment was to implement a shopping cart feature using JavaScript. The cart allows user to add, update, and display items, while also calculating the total cost of all products in the cart.User can also apply discount codes and filter out items with zero quantity.

**Code Explanation:**

**addItemToCart:**

* This function add products to the cart.
* It takes in product details (productid, productname, quantity, price ).
* Product is added to the cart using ‘push’.

**removeItemFromCart:**

* This method removes product from cart by filtering (by specified productid).
* Filter returns a new array containing all items except the one with the matching productid.

**updateItem:**

* This method updates the quantity of a product in the cart.
* It finds the product in the cart using ‘find’ method.

**calculateTotalCost:**

* It calculates the total price of all items in the cart.
* It uses ‘reduce’ to sum up total by multiplying the ‘price’ by ‘quantity’ for each product.
* It starts from 0, and for each item in the cart, it adds the item’s total price to the overall total.

**displayCartSummary:**

* It shows summary of each product in the cart.
* ‘forEach’ iterates through each product in the cart and logs the product name, quantity, price per item, and total cost for the product.

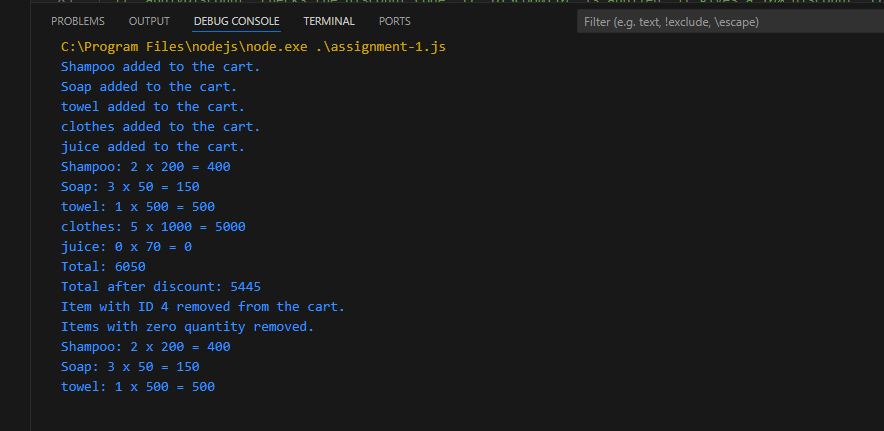
**filterZeroQuantityItems:**

* It removes the items from the cart that have 0 quantity.

**applyDiscount:**

* Checks the discount code and applies discount.

**OUTPUT:**

****