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My JavaScript code provides functionality for managing a shopping cart, allowing users to add, remove, and update product quantities. It also supports calculating the total price, applying discounts, and filtering out products with zero quantity.

Key Functions:

1. **addProduct:** Adds a product to the cart by specifying product details such as productId, productName, quantity, and price.
2. **deleteProduct:** Removes a product from the cart by finding it using its productId.
3. **modifyProductQuantity:** Updates the quantity of an existing product in the cart by its productId.
4. **getTotalPrice:** Calculates the total price of all products in the cart by multiplying the price and quantity of each item and summing them up.
5. **showCartDetails:** Displays the details of each product in the cart, including its name, quantity, and total price for that item.
6. **removeZeroQuantityProducts:** Filters out any products that have a quantity of zero.
7. **applyDiscount:** Applies a discount (in percentage) to the total price and returns the discounted total.

Example Output:

1. **Adding Products:**
 - Adds three products: "Gaming PC", "Monitor", and "Keyboard" with varying quantities and prices.
2. **Modifying Quantity:**
 - Updates the quantity of the "Gaming PC" from 1 to 2.
3. **Removing a Product:**

- Removes the "Monitor" from the cart.

4. Applying a Discount:

- Applies a 15% discount on the total cart price.

5. Filtering Zero Quantity Products:

- Removes any items that may have zero quantity (though in this case, all products have quantities > 0).

```
C:\Program Files\nodejs\node.exe .\assign1.js
> Current Cart: (3) [{...}, {...}, {...}]
  Total Price: 2300
> Cart After Quantity Update: (3) [{...}, {...}, {...}]
> Cart After Product Removal: (2) [{...}, {...}]
  Total Price After Discount (15%): 2720
> Cart After Removing Zero Quantity Products: (2) [{...}, {...}]
```

Current cart is displaying the arrays in this format because object array is a complex structure and we cannot print it directly on debug console.