WDS shopping cart structure

1. When clicked add to cart, item name, price, and quantity will increase. Total price will increase too.
   1. How to addeventlistener to multiple elements in a single line? <https://stackoverflow.com/questions/40956717/how-to-addeventlistener-to-multiple-elements-in-a-single-line>

Cannot use addeventlistent, use forEach then use addEventListener

* 1. Collect the item name, price, and quantity

How to traverse siblings elements

<https://zellwk.com/blog/dom-traversals/>

* 1. Add the item image, name, price and quanity to the cart

How to get the source of an image in JS

<https://stackoverflow.com/questions/7882356/javascript-get-img-src-and-set-as-variable>

how to convert $19.00 to number => how to remove the $ => convert string to number

<https://stackoverflow.com/questions/3200533/shift-js-string-one-character>

<https://gomakethings.com/converting-strings-to-numbers-with-vanilla-javascript/>

How to only show 2 decimal place

<https://stackoverflow.com/questions/6134039/format-number-to-always-show-2-decimal-places>

* 1. Add delete btn

How to select the delete button? Error: cannot addEventListent of nul

Why getElementsByClassName select the delete button which is dynamically created with JS but not querySelector?

<https://stackoverflow.com/questions/14377590/queryselector-and-queryselectorall-vs-getelementsbyclassname-and-getelementbyid>

Does getElementByClassName returns all the elements with the class name?

<https://www.w3schools.com/jsref/met_document_getelementsbyclassname.asp>

How to turn an HTML collection to array for me to run forEach function?

<https://stackoverflow.com/questions/22754315/for-loop-for-htmlcollection-elements>

* 1. how to add event handler or event delegation to dynamically created element ?

If you attach an event listener to specific elements at the time the DOM loads, you’ll need to repeat that process if you add elements to the DOM later with JavaScript.

For example, let’s say you have a form where users can click a button to add additional text fields, and click a “remove me” button next to each field to remove it.

With a traditional approach, attaching listeners to specific elements, you would need to add a new listener every time you added a field. With event delegation, you can setup your listener once and not have to worry about it, since it checks selectors at time of click rather than when the DOM is initially rendered.

* 1. How to add another item on top of the existing item in the shopping cart?

cartItems.innerHTML +=

* 1. How to update the total price after adding the second item?

        let totalPriceNum = parseFloat(totalPrice.innerHTML);

        if (!totalPriceNum) {

            let sum = newPrice \* quantity;

            totalPrice.innerHTML = sum.toFixed(2);

        } else {

            totalPriceNum += newPrice \* quantity;

            totalPrice.innerHTML = totalPriceNum.toFixed(2);

        }

* 1. How to get the new total price after updating the quantity? How to get the right old total price before updating the new total price?

<https://stackoverflow.com/questions/29118178/input-jquery-get-old-value-before-onchange-and-get-value-after-on-change>

//get the old total before changing the quantity

               item.addEventListener('focus', (e) => {

                    newPrice = parseFloat(item.parentElement.previousElementSibling.innerHTML.substr(1));

                    let oldTotal = item.value \* newPrice;

                    totalPriceNum = parseFloat(totalPrice.innerHTML);

                    //update the new total price after chaning the quantity

                    item.addEventListener('input', (e) => {

                           let finalTotal = totalPriceNum - oldTotal + (item.value \* newPrice);

                           item.defaultValue = item.value;

                           totalPrice.innerHTML = finalTotal.toFixed(2);

                        })

                    })

* 1. How to keep the updated input field after adding another item?

item.defaultValue = item.value;

* 1. How to update the quantity of an existing item when click add to card again of the same item?
  2. How to tell if a variable is falsy?

<https://guide.freecodecamp.org/javascript/falsy-values/>

* 1. how to increase the input text value incrementally in js

<https://stackoverflow.com/questions/13249528/javascript-update-increment-variable-value-on-click>

<https://stackoverflow.com/questions/40146148/how-to-increment-and-decrement-the-text-box-value-using-javascript>

<https://stackoverflow.com/questions/9186346/javascript-onclick-increment-number>

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* 1. for each only get the first element and does not stop a function but for loop get all of them and stop a function with return

<https://medium.com/front-end-weekly/3-things-you-didnt-know-about-the-foreach-loop-in-js-ff02cec465b1>

<https://stackoverflow.com/questions/25994909/difference-between-foreach-and-for-loop-in-javascript>

return in forEach will not stop the function but the return in for loop will stop the function

1. There is a delete button to remove the item

Mistakes

1. I did not know to use getElementbyClassName(‘.cart-item)[0] (the highlighted part is used to get the element instead of the whole list. Because getElementbyClassName returns a node list)
2. I did not know I can replace document with other HTML elements

 var cartItemContainer = document.getElementsByClassName('cart-items')[0]

 var cartRows = cartItemContainer.getElementsByClassName('cart-row')

Example

Change the background color of all elements with class="example":

var x = document.getElementsByClassName("example");  
var i;  
for (i = 0; i < x.length; i++) {  
  x[i].style.backgroundColor = "red";  
}

1. I did not know to use the following code to ensure the HTML is loaded before executing JS

if (document.readyState == 'loading') {

    document.addEventListener('DOMContentLoaded', ready)

} else {

    ready()

}

1. I did not know to use function updateCartTotal() after remove button and quantitychange button for DRY code.
2. I did not know how to update the quantity by checking if the value is a number or if it is less than 0, and reuse the updatCartTotal()
3. Inside the addItemToCart function because remove button is added and the quantity changed is added with JS after the page is loaded, I need to add the following code at the end of addItemToCart function

    cartRow.getElementsByClassName('btn-danger')[0].addEventListener('click', removeCartItem)

    cartRow.getElementsByClassName('cart-quantity-input')[0].addEventListener('change', quantityChanged)