

## **TXT WebApp Challenge**

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**Purpose:** To input three numbers into the text field and sort the numbers in ascending order

**Process:**

When thinking of the project I had the previous knowledge of Java in mind where I worked with a lot of sorting methods and strategies. I made the project first through the HTML component and did some styling before engaging with the programming itself. I got the logo online and used the hex color for the whole web page. I then constructed the form and some empty paragraph tags that I would later use in the scripting aspect. I made sure to ID or class the components that I would use to call the functions and information. After that I went on to scripting where I first tried the inherent function that JavaScript already has in place to essentially sort through the array, but it was not a viable option because of its interpretation of sort where double digits wouldn't be sorted the way I expected. So I started to think about the way I would sort through an array on Java since I am more fluent and confident in it. I imagined traversing through the array and the arrangements that need to be made along the way. I had some trouble getting the order or steps in place since at first I coded a descending version, but with some minor adjustments of the if loop and the nested for loop completed the challenge for me. Throughout the process I looked at W3 schools for reference and re-understood sorting with Stack Overflow.

**Function:**

Enter any number into the number text box, it should only take numbers except for 'e'. After entering a number, you can add it to the array by clicking 'Enter Number', it will display all numbers that you want to sort through in the order you entered them. Then when you want to sort, click 'Sort Numbers' and it will take the array of numbers and display the sorted version below. You can add more numbers into the array and repeat the process to re-sort the new array.