Project Documentation: Adding and Subtracting Numbers

Overview:

This project consists of a simple web application that allows users to perform basic arithmetic operations: addition and subtraction of two numbers. The application is built using HTML, CSS, and JavaScript.

Files

HTML File: `01.html`

The HTML file structures the web page, providing sections for inputting numbers and displaying results for both addition and subtraction operations.

Key Elements

Head Section:

  - Includes meta tags for character set and viewport settings.

  - Links to Google Fonts for custom font usage.

  - Links the CSS file for styling.

Body Section:

  - Contains two main containers:

    - The first container allows users to add two numbers.

    - The second container allows users to subtract two numbers.

  - Each container includes:

  - A heading

- Input fields for the numbers

  - A submit button to perform the operation

  - A division to display the result

- **JavaScript Functions:**

  - `sum()`: Calculates and displays the sum of two numbers.

  - `substract()`: Calculates and displays the difference of two numbers.

CSS File: `01.css`

The CSS file styles the HTML elements, ensuring a visually appealing and user-friendly interface.

Key Styles

- **Body:**

  - Sets a background color.

  - Applies a custom font family.

- **Containers:**

  - `container`: Styles the section for adding numbers.

    - Flexbox layout for centering content.

    - Background color, padding, and margin settings.

  - `container1`: Styles the section for subtracting numbers.

    - Similar layout and styling as `container` but with a different background color.

Detailed Code Explanation

HTML Structure (`01.html`)


```html
```

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Add two numbers</title>


    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link
href="https://fonts.googleapis.com/css2?family=Bebas+Neue&family=Josefin+Sans:ital,wght@0,100..70
0;1,100..700&display=swap" rel="stylesheet">
    <link rel="stylesheet" href="01.css">
</head>
<body>
    <div class="container">
        <h1>You can add two numbers here!</h1>
        <br>
        <input type="number" id="num1" placeholder="Enter the first number">
        <br>
        <input type="number" id="num2" placeholder="Enter the second number">
        <br>
        <button onclick="sum()">Submit</button>
        <br>
        <div id="sum"></div>
    </div>
    <div class="container1">
        <h1>You can subtract two numbers here!</h1>
        <br>
        <input type="number" id="num3" placeholder="Enter the first number">
        <br>
```

```html
    <input type="number" id="num4" placeholder="Enter the second number">
    <br>
    <button onclick="substract()">Submit</button>
    <br>
    <div id="difference"></div>
  </div>


  <script>
   function sum(){
     const num1 = parseFloat(document.getElementById("num1").value);
     const num2 = parseFloat(document.getElementById("num2").value);
     const add = num1 + num2;
     // Check the validity of two numbers.
     if(isNaN(num1) || isNaN(num2)){
        document.getElementById("sum").innerText = "Enter a valid number";
     }
     else{
        document.getElementById("sum").innerText = "The sum of " + num1 + " and " + num2 + " is " + add;
     }
   }

   function substract(){
     const num1 = parseFloat(document.getElementById("num3").value);
     const num2 = parseFloat(document.getElementById("num4").value);
     const sub = num1 - num2;
     // Check the validity of two numbers.
     if(isNaN(num1) || isNaN(num2)){
        document.getElementById("difference").innerText = "Enter a valid number";
     }
```

```
        else{

            document.getElementById("difference").innerText = "The difference of " + num1 + " and " +
num2 + " is " + sub;

        }

    }

    </script>

</body>

</html>
```

CSS Styles (`01.css`)

```css
body {

    background-color: #418060;

    font-family: "Josefin Sans", sans-serif;

}

.container {

    display: flex;

    flex-direction: column;

    align-items: center;

    justify-content: center;

    height: 50vh;

    background-color: #34495e;

    padding: 0vh;

    margin: 0vh;

}

.container1 {
```

```
    display: flex;

    flex-direction: column;

    align-items: center;

    justify-content: center;

    height: 50vh;

    background-color: #871e66;

    padding: 0vh;

    margin: 0vh;

}
```

Functionality Description

Sum Function

- Retrieves values from input fields `num1` and `num2`.

- Parses these values as floats.

- Calculates the sum of the two numbers.

- Checks if the inputs are valid numbers:

  - If not, displays an error message.

  - If valid, displays the sum.

Subtract Function

- Retrieves values from input fields `num3` and `num4`.

- Parses these values as floats.

- Calculates the difference between the two numbers.

- Checks if the inputs are valid numbers:

  - If not, displays an error message.

- If valid, displays the difference.

Usage Instructions
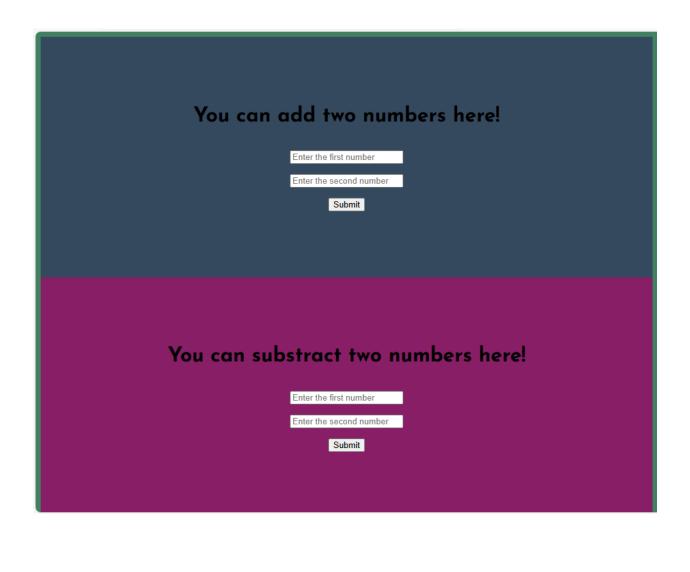
1. **Adding Numbers:**

   - Enter the first number in the first input field within the "You can add two numbers here!" section.

   - Enter the second number in the second input field.

   - Click the "Submit" button.

   - The result will be displayed below the button.

2. **Subtracting Numbers:**

   - Enter the first number in the first input field within the "You can subtract two numbers here!" section.

   - Enter the second number in the second input field.

   - Click the "Submit" button.

   - The result will be displayed below the button.

This document should help you understand the structure, functionality, and usage of the project.

Images:

You can add two numbers here!

Enter the first number

Enter the second number

Submit

You can substract two numbers here!

Enter the first number

Enter the second number

Submit

You can add two numbers here!

45

78

Submit

You can substract two numbers here!

90

88

Submit

You can add two numbers here!

45

78

Submit

The sum of 45 and 78 is 123

You can substract two numbers here!

90

88

Submit

The difference of 90 and 88 is 2