Online Machine Test - Stature

Time Allocated: 45 Minutes

Instructions:

You have been provided with a file `sum_calc.html` that needs to be modified according to the given tasks. Place all the required files in a folder named after your name. After completing the modifications, compress the folder into a ZIP file and send it to ask@statureit.com and cc to gagan@statureit.com.

During the test, screen sharing is required to ensure transparency and prevent cheating. You must demonstrate the modifications made to the `sum_calc.html` file and its functionality live.

1. **Meta Tag and Title:**
   - Add the missing `<meta>` tag in the `<head>` section to ensure proper responsiveness.
   - Set the title of the document to "Dynamic Input Addition and Sum".
2. **External Script and Stylesheet:**
   - Link the external stylesheet `styles.css` for enhanced visual appeal.
   - Enqueue the external script `script.js` to handle interactivity for the form buttons.
3. **Responsive Design and Visual Appeal:**
   - Ensure the form and its elements adapt well across different devices (desktop, tablet, mobile).
   - Aim for a visually appealing layout with appropriate spacing, font styles, and color scheme (`#f0f0f0` for background).
4. **Functionality Testing:**
   - Verify that the form starts with two required input fields for "Number 1" and "Number 2".
   - Test the "Add Input" button functionality:
     - Add a new set of input fields dynamically with sequential labels ("Number 3", "Number 4", etc.).
   - Test the "Calculate Sum" button functionality:
     - Enter valid numbers into the input fields.
     - Confirm that clicking "Calculate Sum" displays or calculates the correct sum of entered numbers.
5. **Count Characters**
   - Write a JavaScript function called `countCharacters` that takes a string `str` as input and returns an object containing the frequency of each character in the string.
   - **Example:**
     - If `str = "hello world"`, the function should return:

```
{
    'h': 1,
    'e': 1,
    'l': 3,
    'o': 2,
    ' ': 1,
    'w': 1,
    'r': 1,
    'd': 1
}
```

Note: Add this function to the same script.js created in Task 2