Documentation

Introduction

In implementing the problem we used JavaScript coupled with HTML and CSS due to the following reasons:

- Most of the group members had prior knowledge of HTML, CSS, and JavaScript
- An easy to work with User Interface for the end user.
- Need for event based functionalities which are well offered by JavaScript
- JavaScript is a high level language hence you do much more with small lines of code.
- Availability of basic and complex arithmetic operations in JavaScript.

Algorithm Design

To solve the problem, we followed the below procedure:

- Design the calculator as a table, the table should be made up of rows, in the rows,you chip in the data you want to be displayed.
- For each data that you chip in, in the rows, make sure there is a corresponding **onclick** event to it. The **onclick** event is to be handled in JavaScript.
- In your JavaScript code, handle the operations as they are being received from the client side. For each operation, attach a **try catch** block. In case there is an error, catch it and display it, else display the result.
- Add a form for receiving an input file. Listen to the **onchange** event and catch the file being uploaded. In case the file is not a .pdf or a .txt, throw an error. Else read the file content and display it on the calculator.