

Assignment

Learner Details

• Name: Shrayanth S

Enrollment Number: SU625MR011

• Batch / Class: June 2025 MERN

• Assignment: Student Marks Table with total calculation

• Date of Submission: 15/07/2025

Problem Solving Activity 1.1

1. Program Statement

The goal of this program is to create an HTML table that displays marks scored by students in various subjects. A "Submit" button is provided for each student, which, when clicked, calculates and displays the total marks for that student. The program takes subject marks as input (hardcoded) and dynamically shows the total on the webpage.

2. Algorithm

- Create an HTML table with rows representing each student and their marks in different subjects.
- Include a final column with a placeholder for the total and a button labeled "Submit".
- Write a JavaScript function named calculateTotal() which:
 - o Accepts the cell ID and marks as parameters.
 - o Adds all marks and displays the total in the specified cell.
- Link the function to the button using onclick.

3. Pseudocode

For each student:

Display name and marks in English, Kannada, Hindi, Social Science, Biology, Chemistry Create a button labeled "Submit"



On button click:

Call calculateTotal function

Pass marks and corresponding cell ID

Inside function:

Add marks

Update the content of the 'total' cell with calculated sum

4. Program Code

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Student Marks Table 15-07-2025 </title>
  <style>
    body {
      font-family: Arial, sans-serif;
      padding: 40px;
      background-color: antiquewhite;
                A Unit of Pragnova Pvt Ltd
    table {
      width: 100%;
      border-collapse: collapse;
      text-align: justify;
    th,
    td {
      border: 1px solid #333;
      padding: 10px;
```



```
th {
      background-color: chocolate;
      color: white;
    tr:hover {
      background-color: burlywood;
    button {
      padding: 5px 10px;
      background-color: green;
      color: white;
      border: double;
      border-radius: 5px;
      cursor: pointer;
    button:hover {
      background-color: brown;
  </style>
</head>
                A Unit of Pragnova Pvt Ltd
<body>
```

<h2 style="background-color:darkgreen; color:beige; height: 31px; ">Student Marks Table - 2K 25 StemUp!!!!!!</h2>



```
Social Science
  Biology
  Chemistry
  Total
  Instructions: Click on the below button to get your final 'Total' result 
 </thead>
Shrayanth S
  78
  80
  89
  77
  75
  85
  Note: Click on the Submit button to get your Total Marks
  <button onclick="calculateTotal('total1', 78, 80, 89, 77, 75, 85)">Submit</button>
 Nikhil
         Unit of Pragnova Pvt Ltd
  88
  90
  85
  80
  78
  88
  id="total2">Note: Click on the Submit button to get your Total Marks
  Submit</button>
 Chandrakanth
  65
```



```
70
   60
   75
   80
   68
   id="total3">Note: Click on the Submit button to get your Total Marks
   Submit</button>
  Vishnu Priya
   90
   85
   88
   92
   86
   84
   id="total4">Note: Click on the Submit button to get your Total Marks
   <button onclick="calculateTotal('total4', 90, 85, 88, 92, 86, 84)">Submit</button>
  Indira Priyadharshini
          Unit of Pragnova Pvt Ltd
   72
   68
   74
   70
   69
   76
   d id="total5">Note: Click on the Submit button to get your Total Marks
   Submit</button>
  <script>
```



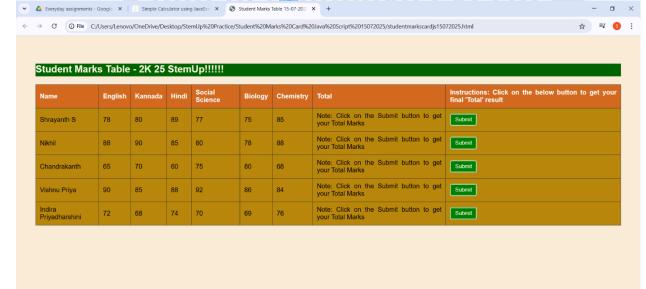
```
function calculateTotal(cellId, m1, m2, m3, m4, m5, m6) {
    let total = m1 + m2 + m3 + m4 + m5 + m6;
    document.getElementById(cellId).innerText = total;
}
</script>
</body
</html>
```

5. Test Cases

Student Name	Expected Total	Button Click Result
Shrayanth S	484	Passes
Nikhil	509	Passes
Chandrakanth	418	Passes
Vishnu Priya	525	Passes
Indira Priyadharshini	429	Passes

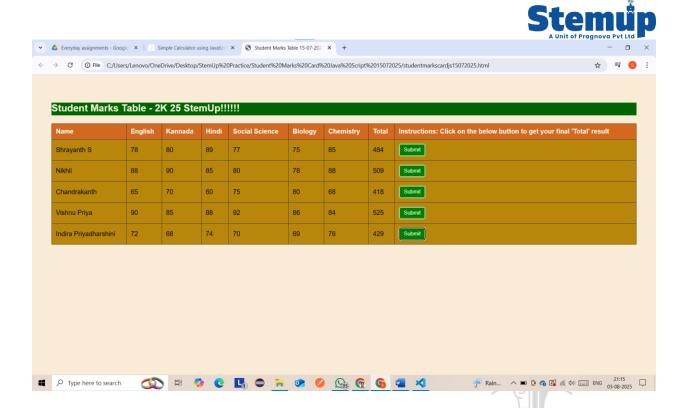


6. Screenshots of Output it of Pragnova Dyt Ital









7. Observation / Reflection

Working on this assignment gave me a clear understanding of how to use HTML tables and how JavaScript can make web pages interactive. A small challenge I faced was making sure each "Submit" button worked correctly for the right student, but that helped me learn how event handling works. I also enjoyed playing around with CSS to make the table look clean and readable. Next time, I'd like to improve the project by calculating totals automatically or letting users enter their own marks. Overall, it was a fun and useful way to practice HTML, CSS, and JavaScript together.



