

Assignment-02

Course Title : INTERNET PROGRAMMING

Course Code : CSEC422

Department : Computer Science and Engineering

Submitted To: Submitted by:

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Title: Result Average Calculation Web-Page Using Bootstrap and JavaScript

Working Procedure:

1. **Introduction**:

o The objective of this lab is to create a web-based application that calculates the average score of three subjects. The user inputs the scores for each subject, and the application computes the average and displays the result.

2. Design & Layout:

- The web page is designed using HTML for structure, CSS for styling, and JavaScript for functionality.
- The page contains:
 - Three input fields for entering scores for each subject.
 - A result field that displays the average score.
 - A "Calculate AVG" button that triggers the calculation.
- The UI is enhanced using **Bootstrap 5** for responsiveness and better design, including gradients and custom buttons.

3. **Input Fields**:

- The application provides three input fields where the user enters scores for Subject 1, Subject 2, and Subject 3.
- o Each input field accepts numerical values only.

4. Calculation Process:

- When the user clicks the "Calculate AVG" button:
 - The values entered in the input fields are retrieved by JavaScript.
 - These values are converted into floating-point numbers using the parseFloat() function.
 - The application checks if the inputs are valid (ensuring they are numbers) using isNaN().
 - If valid, the average is calculated by summing the three scores and dividing by 3.
 - The result is displayed in the "Result" input field with two decimal places using toFixed(2).

5. Error Handling:

o If any of the input fields contain invalid or non-numeric data, the application displays an error message prompting the user to enter valid numbers.

Source Code:

```
Assignment 2.html X
    <!DOCTYPE html>
    <html lang="en">
        <meta charset="UTF-8">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <title>Result Average Calculation</title>
            body {
| background: linear-gradient(135deg, ■#0072ff, ■#00c6ff);
                display: flex;
                align-items: center;
             .card {
                background: linear-gradient(135deg, ■#87CEFA, ■#FFFFFF);
                color: □black;
                border-radius: 15px;
                box-shadow: 0 8px 16px □rgba(0, 0, 0, 0.3);
                padding: 20px;
             .btn-custom {
                background-color: ■#0072ff;
                color: ■white;
                font-weight: bold;
                border: none;
transition: 0.3s;
             .btn-custom:hover {
                background-color: ■#00c6ff;
```

```
.form-control {
   border-radius: 10px;
    border: 1px solid ■#0072ff;
    background: ■white;
   color: □black;
.form-control:focus {
   border: 2px solid ■#00c6ff;
    box-shadow: none;
    <div class="col-md-6">
            <h3 class="text-center mb-4">Result Average Calculation</h3>
            <div class="mb-3">
                <label class="form-label">Subject 1</label>
                <input type="number" class="form-control" id="subject1">
            <div class="mb-3">
                <label class="form-label">Subject 2</label>
                <input type="number" class="form-control" id="subject2">
            <div class="mb-3">
                <label class="form-label">Subject 3</label>
                <input type="number" class="form-control" id="subject3">
```

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js"></script>

Output:

</html>

