

Assignment 08:

Title: Using Functions in JavaScript that performs arithmetic operations

Objective: To understand and use JavaScript functions for performing arithmetic operations like addition, subtraction, multiplication, and division.

Tasks: Create a JavaScript program that performs the following arithmetic operations using functions:
Addition, Subtraction, Multiplication, Division

Software Required:

3. Notepad (or any text editor)
4. Any web browser (Google Chrome / Edge / Firefox)

Procedure:

Step 1: Open Notepad (or any text editor).

Step 2: Create new file.

Step 3: Save the file as

- File Name: assignment8.html
- Save as type: All Files
- Encoding: UTF-8
- Location: Desktop or your project folder

Step 4: Type the HTML program using

Concept	Tags Introduced
Script Tag	<code><script type="text/JavaScript"></code>
Creating Function	<code>function add(){}</code>
Input Box	<code><input type="text"></code>
Button	<code><input type="button"></code>
Event Handler	<code>onclick="add();"</code>
Arithmetic Operators	<code>+, -, *, /</code>
Accessing Elements	<code>document.getElementById("id").value</code>
Display Output	<code>document.getElementById("id").innerHTML</code>

Step 5: Run assignment8.html in any web browser

Note: Use comments (<!-- -->) in your code to label each question clearly.

Example: <!-- Question 1-->

Question 1: Addition using JavaScript Function

Example: Add two numbers

```
<!DOCTYPE html>
<html>
  <body>
    <!-- Question 1: Addition -->
    Enter First Number: <input type="text" id="n1"><br><br>
    Enter Second Number: <input type="text" id="n2"><br><br>
    <input type="button" value="Add" onclick="add()">
    <p id="result"></p>
    <script>
      function add()
      {
        var a = parseInt(document.getElementById("n1").value);
        var b = parseInt(document.getElementById("n2").value);
        document.getElementById("result").innerHTML = "Addition = " + (a + b);
      }
    </script>
  </body>
</html>
```

Student Activity: Create a program to add two numbers using a JavaScript function.

Question 2: Subtraction using JavaScript Function

Student Activity: Create a JavaScript function to subtract two numbers and display the result on the webpage.

Question 3: Multiplication using JavaScript Function

Student Activity: Create a JavaScript function to multiply two numbers and display the result.

Question 4: Division using JavaScript Function

Student Activity: Create a JavaScript function to divide two numbers and display the result.

Question 5: Simple Calculator using JavaScript Functions

Student Activity: Create a simple calculator that performs Addition, Subtraction, Multiplication, and Division using separate JavaScript functions and buttons.

Conclusion: Successfully created a JavaScript program using functions to perform basic arithmetic operations such as addition, subtraction, multiplication, and division.