**HTML**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Petrol Calculator</title>

    <link rel="stylesheet" href="GAMING.CSS">

</head>

<body>

    <div class="calculator-container">

        <h1>Petrol Calculator</h1>

        <div class="input-group">

            <label for="costPerLiter">Cost per Liter (£):</label>

            <input type="number" id="costPerLiter" value="1.72" step="0.01" min="0">

        </div>

        <div class="input-group">

            <label for="liters">Liters Purchased:</label>

            <input type="number" id="liters" value="0" step="1" min="0">

        </div>

        <button id="calculateBtn">Calculate Total</button>

        <p id="result">Total Cost: £0.00</p>

    </div>

    <script src="GAMING.JS"></script>

</body>

</html>

**CSS**

\* {

    margin: 0;

    padding: 0;

    box-sizing: border-box;

}

body {

    font-family: Arial, sans-serif;

    background-color: #f0f2f5;

    display: flex;

    justify-content: center;

    align-items: center;

    min-height: 100vh;

}

.calculator-container {

    background-color: white;

    padding: 2rem;

    border-radius: 10px;

    box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);

    width: 100%;

    max-width: 400px;

}

h1 {

    text-align: center;

    color: #333;

    margin-bottom: 1.5rem;

}

.input-group {

    margin-bottom: 1rem;

}

.input-group label {

    display: block;

    margin-bottom: 0.5rem;

    color: #555;

}

.input-group input {

    width: 100%;

    padding: 0.5rem;

    border: 2px solid #ddd;

    border-radius: 5px;

    font-size: 1rem;

    transition: border-color 0.3s ease;

}

.input-group input:focus {

    outline: none;

    border-color: #007bff;

}

button {

    width: 100%;

    padding: 0.75rem;

    background-color: #007bff;

    color: white;

    border: none;

    border-radius: 5px;

    font-size: 1rem;

    cursor: pointer;

    transition: background-color 0.3s ease;

}

button:hover {

    background-color: #0056b3;

}

#result {

    margin-top: 1rem;

    text-align: center;

    color: #333;

    font-weight: bold;

}

**JS**

// This script calculates the total cost of petrol based on cost per liter and liters purchased.

const costPerLiterInput = document.getElementById('costPerLiter'); // Selects the input field for cost per liter

const litersInput = document.getElementById('liters'); // Selects the input field for liters purchased

const calculateBtn = document.getElementById('calculateBtn'); // Selects the button to trigger calculation

const result = document.getElementById('result'); // Selects the paragraph to display the result

calculateBtn.addEventListener('click', calculateTotal); // Adds a click event listener to the button to run calculateTotal

function calculateTotal() {

    const costPerLiter = parseFloat(costPerLiterInput.value); // Gets and converts cost per liter input to a number

    const liters = parseFloat(litersInput.value); // Gets and converts liters input to a number

    const total = costPerLiter \* liters; // Calculates total cost by multiplying cost per liter by liters

    result.textContent = `Total Cost: £${total.toFixed(2)}`; // Updates the result text with total cost, formatted to 2 decimal places

}

calculateTotal(); // Runs the function once on page load to show initial result with default values