<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Inflation Calculator</title>

<script src="https://cdn.jsdelivr.net/npm/chart.js@2.9.4/dist/Chart.min.js"></script>

<style>

body {

font-family: Arial, sans-serif;

}

.calculator-container {

max-width: 600px;

margin: 20px auto;

padding: 20px;

border: 1px solid #ddd;

border-radius: 8px;

background-color: #f9f9f9;

}

table {

width: 100%;

margin-bottom: 20px;

}

td {

padding: 8px;

}

input[type="number"] {

width: 100%;

padding: 8px;

}

button {

padding: 10px 20px;

background-color: #4CAF50;

color: white;

border: none;

cursor: pointer;

}

.results {

margin-top: 20px;

}

.results p {

font-weight: bold;

}

canvas {

margin-top: 20px;

width: 100% !important;

height: auto !important;

}

</style>

</head>

<body>

<div class="calculator-container">

<h2>Inflation Calculator</h2>

<table>

<tr>

<td>Current Cost (₹):</td>

<td><input type="number" id="currentCost" value="100000"></td>

</tr>

<tr>

<td>Rate of Inflation (p.a.) (%):</td>

<td><input type="number" id="inflationRate" value="6.5" step="0.1"></td>

</tr>

<tr>

<td>Time Period (Years):</td>

<td><input type="number" id="years" value="5"></td>

</tr>

<tr>

<td colspan="2"><button onclick="calculate()">Calculate</button></td>

</tr>

</table>

<div class="results" id="results" style="display:none;">

<p id="current"></p>

<p id="increase"></p>

<p id="future"></p>

<canvas id="chart"></canvas>

</div>

</div>

<script>

function formatINR(x) {

return new Intl.NumberFormat('en-IN', {

style: 'currency',

currency: 'INR'

}).format(x);

}

function calculate() {

const cost = parseFloat(document.getElementById('currentCost').value);

const rate = parseFloat(document.getElementById('inflationRate').value);

const years = parseFloat(document.getElementById('years').value);

const future = cost \* Math.pow(1 + rate / 100, years);

const increase = future - cost;

document.getElementById('current').innerText = "Current Cost: " + formatINR(cost);

document.getElementById('increase').innerText = "Cost Increase: " + formatINR(increase);

document.getElementById('future').innerText = "Future Cost: " + formatINR(future);

document.getElementById('results').style.display = "block";

const ctx = document.getElementById('chart').getContext('2d');

if (window.chartInstance) window.chartInstance.destroy();

window.chartInstance = new Chart(ctx, {

type: 'pie',

data: {

labels: ['Current Cost', 'Cost Increase'],

datasets: [{

data: [cost, increase],

backgroundColor: ['green', 'blue']

}]

},

options: {

responsive: true,

legend: {

position: 'top'

}

}

});

}

</script>

</body>

</html>