# Car Cost Comparison - HTML Code

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <meta name="viewport" content="width=device-width, initial-scale=1.0">  
 <title>Car Cost Comparison</title>  
 <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap/5.3.0/css/bootstrap.min.css">  
 <script src="https://cdn.jsdelivr.net/npm/chart.js"></script>  
 <style>  
 body { font-family: 'Arial', sans-serif; transition: 0.3s; }  
 .container { max-width: 800px; margin-top: 30px; padding: 20px; border-radius: 10px; background: white; box-shadow: 0 0 10px rgba(0, 0, 0, 0.1); }  
 .dark-mode { background-color: #222; color: white; }  
 .dark-mode .container { background: #333; box-shadow: 0 0 10px rgba(255, 255, 255, 0.2); }  
 .toggle-btn { cursor: pointer; padding: 5px 10px; border-radius: 5px; border: none; background-color: black; color: white; }  
 .qr-container { text-align: center; margin-top: 20px; }  
 canvas { max-width: 100%; }  
 </style>  
</head>  
<body>  
 <div class="container">  
 <h2 class="text-center">Petrol vs Diesel vs EV - Cost Comparison</h2>  
 <button class="toggle-btn float-end" onclick="toggleDarkMode()">🌙 Dark Mode</button>  
 <label class="form-label mt-3">Distance Driven per Month (km):</label>  
 <input type="number" id="distance" class="form-control" value="1000" min="1">  
 <label class="form-label mt-2">Petrol Price (₹ per litre):</label>  
 <input type="number" id="petrolPrice" class="form-control" value="100" min="0">  
 <label class="form-label mt-2">Diesel Price (₹ per litre):</label>  
 <input type="number" id="dieselPrice" class="form-control" value="90" min="0">  
 <label class="form-label mt-2">Electricity Price (₹ per kWh):</label>  
 <input type="number" id="evPrice" class="form-control" value="8" min="0">  
 <label class="form-label mt-2">Petrol Car Price (₹):</label>  
 <input type="number" id="petrolCarPrice" class="form-control" value="800000" min="0">  
 <label class="form-label mt-2">Diesel Car Price (₹):</label>  
 <input type="number" id="dieselCarPrice" class="form-control" value="900000" min="0">  
 <label class="form-label mt-2">EV Car Price (₹):</label>  
 <input type="number" id="evCarPrice" class="form-control" value="1200000" min="0">  
 <button class="btn btn-success mt-3 w-100" onclick="calculate()">Compare Cars</button>  
 <h3 class="text-center mt-4">Comparison Table</h3>  
 <table class="table table-bordered table-striped mt-3">  
 <thead class="table-dark">  
 <tr>  
 <th>Car Type</th>  
 <th>Fuel Cost (₹/Month)</th>  
 <th>Insurance & Maintenance (₹/Year)</th>  
 <th>CO₂ Emission (kg/year)</th>  
 <th>Resale Value (After 5 Years, ₹)</th>  
 <th>Total Cost (10 Years, ₹)</th>  
 </tr>  
 </thead>  
 <tbody id="result"></tbody>  
 </table>  
 <h3 class="text-center mt-4">Cost Comparison Chart</h3>  
 <canvas id="costChart"></canvas>  
 <h3 class="text-center mt-4">Scan to Open Website</h3>  
 <div class="qr-container">  
 <img id="qrcode" src="" alt="QR Code">  
 </div>  
 </div>  
 <script>  
 function toggleDarkMode() {  
 document.body.classList.toggle("dark-mode");  
 }  
 function calculate() {  
 let distance = parseFloat(document.getElementById("distance").value);  
 let petrolPrice = parseFloat(document.getElementById("petrolPrice").value);  
 let dieselPrice = parseFloat(document.getElementById("dieselPrice").value);  
 let evPrice = parseFloat(document.getElementById("evPrice").value);  
 let petrolCarPrice = parseFloat(document.getElementById("petrolCarPrice").value);  
 let dieselCarPrice = parseFloat(document.getElementById("dieselCarPrice").value);  
 let evCarPrice = parseFloat(document.getElementById("evCarPrice").value);  
 if (distance <= 0 || petrolPrice <= 0 || dieselPrice <= 0 || evPrice <= 0 ||  
 petrolCarPrice <= 0 || dieselCarPrice <= 0 || evCarPrice <= 0) {  
 alert("Please enter valid positive values for all fields.");  
 return;  
 }  
 let cars = [  
 { type: "Petrol", mileage: 15, insurance: 15000, co2: 2.3, price: petrolCarPrice, resale: petrolCarPrice \* 0.5 },  
 { type: "Diesel", mileage: 20, insurance: 17000, co2: 2.0, price: dieselCarPrice, resale: dieselCarPrice \* 0.5 },  
 { type: "EV", mileage: 6, insurance: 12000, co2: 0, price: evCarPrice, resale: evCarPrice \* 0.5 }  
 ];  
 let resultTable = document.getElementById("result");  
 resultTable.innerHTML = "";  
 let chartData = { labels: [], fuelCosts: [], totalCosts: [] };  
 cars.forEach(car => {  
 let fuelCost = (car.type === "Petrol") ? (distance / car.mileage) \* petrolPrice :  
 (car.type === "Diesel") ? (distance / car.mileage) \* dieselPrice :  
 (distance / car.mileage) \* evPrice;  
 let yearlyCost = (fuelCost \* 12) + car.insurance;  
 let totalCost10Years = (yearlyCost \* 10) + car.price - car.resale;  
 resultTable.innerHTML += `<tr>  
 <td>${car.type}</td>  
 <td>₹ ${fuelCost.toFixed(2)}</td>  
 <td>₹ ${car.insurance}</td>  
 <td>${(car.co2 \* distance \* 12).toFixed(2)} kg</td>  
 <td>₹ ${car.resale.toFixed(2)}</td>  
 <td>₹ ${totalCost10Years.toFixed(2)}</td>  
 </tr>`;  
 });  
 alert("Comparison Done! Check Table Below.");  
 }  
 </script>  
</body>  
</html>