<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Traffic Flow Optimization</title>

<style>

body {

font-family: Arial, sans-serif;

margin: 30px;

background-color: #f4f4f4;

}

.container {

max-width: 600px;

margin: auto;

background: white;

padding: 20px;

border-radius: 8px;

box-shadow: 0 0 10px rgba(0,0,0,0.1);

}

select, button {

padding: 10px;

width: 100%;

margin: 10px 0;

font-size: 16px;

}

#result {

margin-top: 20px;

padding: 15px;

background-color: #e0ffe0;

display: none;

}

</style>

</head>

<body>

<div class="container">

<h2>Traffic Flow Optimization</h2>

<label for="intersection">Select Intersection:</label>

<select id="intersection">

<option value="A">Intersection A</option>

<option value="B">Intersection B</option>

<option value="C">Intersection C</option>

</select>

<label for="time">Select Time of Day:</label>

<select id="time">

<option value="morning">Morning Rush</option>

<option value="noon">Midday</option>

<option value="evening">Evening Rush</option>

</select>

<button onclick="optimizeTraffic()">Optimize Traffic Signals</button>

<div id="result"></div>

</div>

<script>

function optimizeTraffic() {

const intersection = document.getElementById('intersection').value;

const time = document.getElementById('time').value;

const result = document.getElementById('result');

result.style.display = 'block';

result.innerHTML = `Optimization complete for <strong>Intersection ${intersection}</strong> during <strong>${time}</strong>. Signals adjusted for smoother traffic flow.`;

}

</script>

</body>

</html>