<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Temperature Converter</title>

<style>

body {

font-family: Arial, sans-serif;

padding: 20px;

}

.container {

max-width: 400px;

margin: auto;

padding: 20px;

border: 2px solid #ccc;

border-radius: 10px;

background-color: #f9f9f9;

}

h2 {

text-align: center;

}

label {

display: block;

margin: 10px 0;

}

select, input {

width: 100%;

padding: 10px;

margin-bottom: 20px;

font-size: 16px;

}

button {

padding: 10px 20px;

font-size: 16px;

cursor: pointer;

width: 100%;

background-color: #4CAF50;

color: white;

border: none;

border-radius: 5px;

}

button:hover {

background-color: #45a049;

}

.result {

font-weight: bold;

text-align: center;

}

</style>

</head>

<body>

<div class="container">

<h2>Temperature Converter</h2>

<label for="temperature">Enter Temperature:</label>

<input type="number" id="temperature" placeholder="Enter temperature" />

<label for="unit">Select Unit:</label>

<select id="unit">

<option value="celsius">Celsius (°C)</option>

<option value="fahrenheit">Fahrenheit (°F)</option>

<option value="kelvin">Kelvin (K)</option>

</select>

<button onclick="convertTemperature()">Convert</button>

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

</div>

<script>

function convertTemperature() {

let temperature = parseFloat(document.getElementById('temperature').value);

let unit = document.getElementById('unit').value;

let resultText = '';

if (isNaN(temperature)) {

resultText = 'Please enter a valid number for temperature.';

} else {

switch (unit) {

case 'celsius':

resultText = `

Fahrenheit: ${(temperature \* 9/5) + 32} °F <br>

Kelvin: ${temperature + 273.15} K

`;

break;

case 'fahrenheit':

resultText = `

Celsius: ${(temperature - 32) \* 5/9} °C <br>

Kelvin: {((temperature - 32) \* 5/9) + 273.15} K

`;

break;

case 'kelvin':

resultText = `

Celsius: ${temperature - 273.15} °C <br>

Fahrenheit: ${(temperature - 273.15) \* 9/5 + 32} °F

`;

break;

default:

resultText = 'Please select a unit.';

}

}

document.getElementById('result').innerHTML = resultText;

}

</script>

</body>

</html>