<!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;

background: #f0f4f7;

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

}

.converter {

background: white;

padding: 30px;

border-radius: 10px;

box-shadow: 0 5px 15px rgba(0,0,0,0.1);

width: 300px;

}

.converter h2 {

text-align: center;

}

.form-group {

margin-bottom: 15px;

}

label {

display: block;

margin-bottom: 5px;

}

input[type="number"] {

width: 100%;

padding: 8px;

box-sizing: border-box;

}

.units {

display: flex;

justify-content: space-between;

margin-bottom: 15px;

}

button {

width: 100%;

padding: 10px;

background-color: #007bff;

color: white;

border: none;

cursor: pointer;

border-radius: 5px;

}

button:hover {

background-color: #0056b3;

}

.result {

text-align: center;

margin-top: 20px;

font-size: 1.2em;

}

</style>

</head>

<body>

<div class="converter">

<h2>Temperature Converter</h2>

<div class="form-group">

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

<input type="number" id="temperature" placeholder="e.g. 100" />

</div>

<div class="form-group units">

<label><input type="radio" name="unit" value="C" checked /> Celsius</label>

<label><input type="radio" name="unit" value="F" /> Fahrenheit</label>

<label><input type="radio" name="unit" value="K" /> Kelvin</label>

</div>

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

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

</div>

<script>

function convertTemperature() {

const tempInput = document.getElementById('temperature').value;

const selectedUnit = document.querySelector('input[name="unit"]:checked').value;

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

if (tempInput === '' || isNaN(tempInput)) {

resultDiv.textContent = "Please enter a valid number!";

return;

}

const temp = parseFloat(tempInput);

let results = "";

switch (selectedUnit) {

case "C":

results = `Fahrenheit: ${(temp \* 9/5 + 32).toFixed(2)} °F

\nKelvin: ${(temp + 273.15).toFixed(2)} K`;

break;

case "F":

results = `Celsius: ${((temp - 32) \* 5/9).toFixed(2)} °C

\nKelvin: ${(((temp - 32) \* 5/9) + 273.15).toFixed(2)} K`;

break;

case "K":

results = `Celsius: ${(temp - 273.15).toFixed(2)} °C

\nFahrenheit: ${((temp - 273.15) \* 9/5 + 32).toFixed(2)} °F`;

break;

}

resultDiv.textContent = results;

}

</script>

</body>

</html>