

## Temperature Converter Code

```
<!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:
            </script>
            </body>
          </html>
```

```
 $\$ \{ ((\text{temperature} - 32) * 5/9) + 273.15 \} \text{ K} ;$   
    break;  
    case 'kelvin':  
        resultText = `Celsius:  $\$ \{ \text{temperature} - 273.15 \} \text{ }^\circ\text{C}$  <br> Fahrenheit:  
 $\$ \{ (\text{temperature} - 273.15) * 9/5 + 32 \} \text{ }^\circ\text{F} ;$   
        break;  
    default:  
        resultText = 'Please select a unit.';  
    }  
}  
document.getElementById('result').innerHTML = resultText;  
}  
</script>  
</body>  
</html>
```