

HTML AND JS

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Temperature Conversion Tool</title>

<link rel="stylesheet" href="html.css">

</head>

<body>

<div class="container">

<h1>Temperature Conversion Tool</h1>

<form id="tempForm">

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

<input type="number" id="temperature" placeholder="Enter
value" required>

<div>

<input type="radio" id="cToF" name="conversion"
value="CtoF" checked>

<label for="cToF">Celsius to Fahrenheit</label>

<input type="radio" id="fToC" name="conversion"
value="FtoC">

<label for="fToC">Fahrenheit to Celsius</label>

</div>

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

```
</form>

<h2>Converted Temperature: <span id="result">---</span></h2>

</div>

<script>

    function convertTemperature() {
// Get the input temperature value

let temperature = document.getElementById("temperature").value;

// Check if the input is a valid number

if (isNaN(temperature) || temperature === "") {
alert("Please enter a valid temperature.");
return;
}

// Get the selected conversion type

let conversionType =
document.querySelector('input[name="conversion"]:checked').value;

let result;

// Perform conversion based on selected type

if (conversionType === "CToF") {
result = (temperature * 9/5) + 32;
result = result.toFixed(2); // Round the result to 2 decimal
places
} else if (conversionType === "FToC") {
result = (temperature - 32) * 5/9;
result = result.toFixed(2); // Round the result to 2 decimal
places
}

// Display the result on the page

document.getElementById("result").textContent = result;
```

```
}  
</script>  
</body>  
</html>
```

CSS

```
body{  
  font-family: Arial, sans-serif;  
  background-color: #f4f4f4;  
  margin: 0;  
  padding: 0;  
  display: flex;  
  justify-content: center;  
  align-items: center;  
  height: 100vh;  
}  
  
.container{  
  background-color: white;  
  padding: 20px;  
  border-radius: 8px;  
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);  
  width: 300px;  
  text-align: center;  
}  
  
h1{  
  font-size: 24px;  
  margin-bottom: 20px;
```

```
}  
  
label {  
  display: block;  
  margin-top: 10px;  
  font-size: 16px;  
}  
  
input[type="number"] {  
  width: 100%;  
  padding: 8px;  
  margin-top: 5px;  
  border-radius: 4px;  
  border: 1px solid #ccc;  
}  
  
input[type="radio"] {  
  margin-top: 10px;  
}  
  
button {  
  width: 100%;  
  padding: 10px;  
  margin-top: 20px;  
  background-color: #4CAF50;  
  color: white;  
  border: none;  
  border-radius: 4px;  
  font-size: 16px;  
  cursor: pointer;  
}  
  
button:hover {
```

```
background-color: #45a049;
}
h2 {
    font-size: 20px;
    margin-top: 20px;
}
#result {
    font-weight: bold;
}
```

Result:

Temperature Conversion Tool

Enter Temperature:



Celsius to Fahrenheit



Fahrenheit to Celsius

Convert

Converted Temperature: ---