<!DOCTYPE html>

<html>

<head>

<title>Temperature Converter</title>

</head>

<body>

<h2>Temperature Converter</h2>

<form method="post" action="">

Enter a temperature: <input type="text" name="temperature">

<select name="conversion\_type">

<option value="fahrenheit\_to\_celsius">Fahrenheit to Celsius</option>

<option value="celsius\_to\_fahrenheit">Celsius to Fahrenheit</option>

</select>

<input type="submit" value="Convert">

</form>

<?php

// Function to convert Fahrenheit to Celsius

function fahrenheitToCelsius($fahrenheit) {

return ($fahrenheit - 32) \* 5/9;

}

// Function to convert Celsius to Fahrenheit

function celsiusToFahrenheit($celsius) {

return ($celsius \* 9/5) + 32;

}

// Check if the form is submitted

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

// Retrieve the temperature and conversion type from the form

$temperature = $\_POST["temperature"];

$conversion\_type = $\_POST["conversion\_type"];

// Check if the input is a valid number

if (is\_numeric($temperature)) {

if ($conversion\_type === "fahrenheit\_to\_celsius") {

$result\_celsius = fahrenheitToCelsius($temperature);

echo "<p>$temperature&deg;F is equal to $result\_celsius&deg;C</p>";

} elseif ($conversion\_type === "celsius\_to\_fahrenheit") {

$result\_fahrenheit = celsiusToFahrenheit($temperature);

echo "<p>$temperature&deg;C is equal to $result\_fahrenheit&deg;F</p>";

}

} else {

echo "<p>Please enter a valid temperature. </p>";

}

}

?>

</body>

</html>