<?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 ($\_SERVER["REQUEST\_METHOD"] == "POST" && isset($\_POST["submit"])) {

    // Get temperature and conversion type from the form

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

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

    // Perform conversion based on the selected type

    if ($conversionType == "f\_to\_c") {

        $result = fahrenheitToCelsius($temperature);

        $resultType = "Celsius";

    } elseif ($conversionType == "c\_to\_f") {

        $result = celsiusToFahrenheit($temperature);

        $resultType = "Fahrenheit";

    }

}

?>

<!DOCTYPE html>

<html>

<head>

    <title>Temperature Converter</title>

</head>

<body>

    <form method="post" action="<?php echo $\_SERVER["PHP\_SELF"]; ?>">

        Enter Temperature: <input type="text" name="temperature" required><br>

        Conversion Type:

        <select name="conversion\_type" required>

            <option value="f\_to\_c">Fahrenheit to Celsius</option>

            <option value="c\_to\_f">Celsius to Fahrenheit</option>

        </select><br>

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

    </form>

    <?php

    // Display the result if available

    if (isset($result) && isset($resultType)) {

        echo "Result: $result $resultType";

    }

    ?>

</body>

</html>