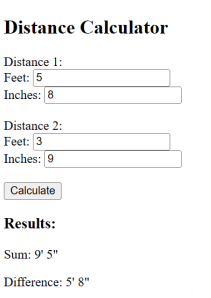
**Write a PHP program that implements a class to add and find the difference of two distance values given in feet and inches. The user inputs are collected through an HTML form.**

****

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**calc.html**

<html>

<head>

<title>Distance calculator</title>

</head>

</body>

<h2>Distance calculator</h2>

<form action="distance\_calculator.php" method="post">

<h3>Distance 1:</h3>

<label for="feet1">Feet:</label>

<input type="number"id="feet1"name="feet1" required><br><br>

<label for="inches1">Inches:</label>

<input type="number"id="inches1"name="inches1" required><br><br>

<h3>Distance 2:</h3>

<label for="feet2">Feet:</label>

<input type="number"id="feet2"name="feet2" required><br><br>

<label for="inches2">Inches:</label>

<input type="number"id="inches2"name="inches2" required><br><br>

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

</form>

</body>

</html>

**distance\_calculator.php**

<?php

class DistanceCalculator {

public function addDistance($feet1, $inches1, $feet2, $inches2) {

$totalFeet = $feet1 + $feet2;

$totalInches = $inches1 + $inches2;

if ($totalInches >= 12) {

$totalFeet += floor($totalInches / 12);

$totalInches %= 12;

}

return array($totalFeet, $totalInches);

}

public function findDifference($feet1, $inches1, $feet2, $inches2) {

$totalFeet1 = $feet1 + $inches1 / 12;

$totalFeet2 = $feet2 + $inches2 / 12;

$difference = abs($totalFeet1 - $totalFeet2);

$differenceFeet = floor($difference);

$differenceInches = ($difference - $differenceFeet) \* 12;

return array($differenceFeet, $differenceInches);

}

}

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

$feet1 = $\_POST["feet1"];

$inches1 = $\_POST["inches1"];

$feet2 = $\_POST["feet2"];

$inches2 = $\_POST["inches2"];

$calculator = new DistanceCalculator();

$sum\_result = $calculator->addDistance($feet1,$inches1,$feet2,$inches2);

$difference\_result = $calculator->findDifference($feet1,$inches1,$feet2,$inches2);

echo "Sum: " . $sum\_result[0] . " feet and " . $sum\_result[1] . " inches<br>";

echo "Difference: " . $difference\_result[0] . " feet and " . $difference\_result[1] . " inches<br>";

}

?>