

```
<!DOCTYPE html>

<html>

<head>

    <title>Gas Law Calculator</title>

</head>

<body>

    <h1> Gas Law Calculator</h1>

    <form method="post">

        <label for="pressure">Pressure (P):</label>

        <input type="text" name="pressure" id="pressure" required>

        <br><br>

        <label for="length">Length:</label>

        <input type="text" name="length" id="length" required>

        <br><br>

        <label for="width">Width:</label>

        <input type="text" name="width" id="width" required>

        <br><br>

        <label for="height">Height:</label>

        <input type="text" name="height" id="height" required>

        <br><br>

        <label for="temperature">Temperature (°C):</label>

        <input type="text" name="temperature" id="temperature" required>

        <br><br>

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

    </form>

    <?php

        if ($_SERVER["REQUEST_METHOD"] == "POST") {
```

```
// Retrieve user inputs

$pressure = $_POST["pressure"];
$length = $_POST["length"];
$width = $_POST["width"];
$height = $_POST["height"];
$temperature = $_POST["temperature"];


// Calculate volume
$volume = $length * $width * $height;
//printing volume
echo "Volume of particle = $volume m3";
// Convert temperature to Kelvin

$temperature += 273.14;
//printing kelvin Temperature

echo " temperature in Kelvin is: $temperature";


// Calculate number of moles
$moles = ($pressure * $volume) / (8.314 * $temperature);


// Round to the nearest whole number
$roundedMoles = round($moles);


// Convert to even or odd value
if ($roundedMoles % 2 == 0) {
    $convertedMoles = $roundedMoles + 1;
} else {
```

```
    $convertedMoles = $roundedMoles - 1;
}

// Display the results
echo "<h2>Results</h2>";
echo "Initial Moles (n): $moles mol<br>";
echo "Rounded Moles: $roundedMoles mol<br>";
echo "Converted Moles: $convertedMoles mol";
}
?>
</body>
</html>
```