6. Develop a currency converter application using PHP that allows users to input an amount dollar and convert it to rupees. This problem, you can use a hard-coded exchange rate.

## Requirements

Before you start, ensure you have the following:

* A **local development server** (e.g., **XAMPP**, **WAMP**, **MAMP**) or a web hosting environment that supports PHP.
* A **web browser** to view the application.

## Steps to Create the Currency Converter

### Step 1: Set Up Your Project

1. **Create a Folder for Your Project**
   * Inside your server's root directory (e.g., htdocs for XAMPP or www for WAMP), create a folder named currency-converter.
2. **Create the PHP File**
   * Inside the currency-converter folder, create a file named index.php.

### Step 2: Write the PHP Code

Below is the complete code for the **currency converter** application, which uses a hardcoded exchange rate.

#### Code: index.php

<?php  
// Step 1: Define the exchange rate (hard-coded)  
$exchange\_rate = 83.00; // 1 USD = 83 INR  
  
// Step 2: Initialize variables  
$usd\_amount = 0;  
$converted\_amount = 0;  
$error\_message = "";  
  
// Step 3: Check if the form is submitted  
**if** (**isset**($\_POST['submit'])) {  
 // Step 4: Get the input value from the user  
 $usd\_amount = $\_POST['usd\_amount'];  
  
 // Step 5: Validate the input  
 **if** (!is\_numeric($usd\_amount) || $usd\_amount <= 0) {  
 // If the entered value is not a valid number or is less than or equal to zero  
 $error\_message = "Please enter a valid positive number.";  
 } **else** {  
 // Step 6: Convert USD to INR using the exchange rate  
 $converted\_amount = $usd\_amount \* $exchange\_rate;  
 }  
}  
?>  
  
<!DOCTYPE html>  
<**html** lang="en">  
<**head**>  
 <**meta** charset="UTF-8">  
 <**meta** name="viewport" content="width=device-width, initial-scale=1.0">  
 <**title**>Currency Converter - USD to INR</**title**>  
 <**style**>  
 **body** {  
 **font-family**: Arial, sans-serif;  
 **background-color**: #f4f4f9;  
 **padding**: 20px;  
 }  
 **h1** {  
 **color**: #333;  
 }  
 .container {  
 **max-width**: 500px;  
 **margin**: 0 auto;  
 **background-color**: #fff;  
 **padding**: 20px;  
 **border-radius**: 8px;  
 **box-shadow**: 0 0 10px rgba(0,0,0,0.1);  
 }  
 **input**[type="number"], **input**[type="submit"] {  
 **padding**: 10px;  
 **width**: 100%;  
 **margin**: 10px 0;  
 **font-size**: 16px;  
 }  
 .error {  
 **color**: red;  
 }  
 .result {  
 **font-size**: 18px;  
 **color**: green;  
 **font-weight**: bold;  
 }  
 </**style**>  
</**head**>  
<**body**>  
  
<**div** class="container">  
 <**h1**>Currency Converter: USD to INR</**h1**>  
  
 <!-- Step 7: Display any error messages if present -->  
 <?php **if** ($error\_message): ?>  
 <**p** class="error"><?php **echo** $error\_message; ?></**p**>  
 <?php **endif**; ?>  
  
 <!-- Step 8: Form for user input -->  
 <**form** method="POST" action="">  
 <**label** for="usd\_amount">Enter Amount in USD:</**label**>  
 <**input** type="number" name="usd\_amount" id="usd\_amount" placeholder="Enter amount in USD" required value="<?php echo $usd\_amount; ?>">  
  
 <**input** type="submit" name="submit" value="Convert">  
 </**form**>  
  
 <!-- Step 9: Display the result if conversion happens -->  
 <?php **if** ($converted\_amount > 0): ?>  
 <**div** class="result">  
 <**p**><?php **echo** number\_format($usd\_amount, 2); ?> USD = ₹<?php **echo** number\_format($converted\_amount, 2); ?> INR</**p**>  
 </**div**>  
 <?php **endif**; ?>  
</**div**>  
  
</**body**>  
</**html**>

### Step 4: Testing the Application

1. **Place the File**:
   * Save the index.php file in your project folder (currency-converter).
2. **Run the Application**:
   * If you're using **XAMPP**, **WAMP**, or **MAMP**, start the server and open a browser.
   * Visit http://localhost/currency-converter/index.php.
3. **Test the Functionality**:
   * Enter a dollar amount (e.g., 10) and click **Convert**.
   * The equivalent INR amount (e.g., ₹830) will be displayed.