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
<?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
```

```php
            $converted_amount = $usd_amount * $exchange_rate;
    }
}
?>
```

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