```
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SOURCE CODE:
CC1.java
package com.cc;
import javax.jws.WebService;
@WebService(endpointInterface = "com.cc.CCI") // Link to the interface CCI
public class CC1 implements CCI {
  @Override
  public double convertCurrency(String fromCurrency, String toCurrency, double amount) {
    // Simple conversion logic (mocked with a static conversion rate)
    double conversionRate = 1.2; // Mock conversion rate for demonstration
    if (fromCurrency.equals("USD") && toCurrency.equals("EUR")) {
      return amount * conversionRate;
    } else if (fromCurrency.equals("EUR") && toCurrency.equals("USD")) {
      return amount / conversionRate;
    } else {
      return amount; // If currencies are the same
}
Client.java
package com.cc;
import javax.xml.namespace.QName;
import javax.xml.ws.Service;
import java.net.URL;
public class Client {
```

public static void main(String[] args) {

```
try {
       // The URL of the WSDL file for the web service
       URL url = new URL("http://localhost:8080/CC/CC1Service?WSDL");
       // The QName must match the service name and the target namespace from the WSDL
       QName qname = new QName("http://cc.com/", "CC1Service");
       // Create a Service object from the WSDL URL and QName
       Service service = Service.create(url, qname);
       // Get the port (the client-side proxy) for the CCI interface
       CCI port = service.getPort(CCI.class);
       // Call the method on the service and print the result
       double result = port.convertCurrency("USD", "EUR", 100.0);
       System.out.println("Converted Amount: " + result);
    } catch (Exception e) {
       e.printStackTrace();
    }
  }
CCI.java
package com.cc;
import javax.jws.WebService;
import javax.jws.WebMethod;
@WebService
public interface CCI {
  @WebMethod
  double convertCurrency(String fromCurrency, String toCurrency, double amount);
}
```

```
CurrencyConverter.jsp
<%@ page import="javax.xml.namespace.QName" %>
<%@ page import="java.net.URL" %>
<%@ page import="javax.xml.ws.Service" %>
<%@ page import="com.cc.CCI" %> <!-- Import the web service interface -->
<%@ page contentType="text/html; charset=UTF-8" language="java" %>
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>Currency Converter</title>
  <style>
    body { font-family: Arial, sans-serif; padding: 20px; }
    .form-container { margin-top: 20px; }
    input, select { padding: 10px; margin: 5px 0; }
  </style>
</head>
<body>
  <h1>Currency Converter</h1>
  <!-- Form to input the currency and amount -->
  <form action="CurrencyConverter.jsp" method="post">
    <label for="fromCurrency">From Currency:</label>
    <select id="fromCurrency" name="fromCurrency">
      <option value="USD">USD</option>
      <option value="EUR">EUR</option>
    </select><br>
    <label for="toCurrency">To Currency:</label>
    <select id="toCurrency" name="toCurrency">
      <option value="EUR">EUR</option>
      <option value="USD">USD</option>
    </select><br>
```

```
<label for="amount">Amount:</label>
  <input type="number" id="amount" name="amount" required /><br>
  <input type="submit" value="Convert" />
</form>
<div class="form-container">
  <%
  // Get form parameters
  String fromCurrency = request.getParameter("fromCurrency");
  String toCurrency = request.getParameter("toCurrency");
  String amountStr = request.getParameter("amount");
  double convertedAmount = 0;
  // If parameters are available, invoke the web service
  if (fromCurrency != null && toCurrency != null && amountStr != null) {
    try {
      double amount = Double.parseDouble(amountStr);
      // Construct the WSDL URL and service QName
      URL url = new URL("http://localhost:8080/CC/CC1Service?WSDL");
      QName qname = new QName("http://cc.com/", "CC1Service");
      // Create the service and get the port (interface)
      Service service = Service.create(url, qname);
      CCI port = service.getPort(CCI.class); // Use the CCI interface
      // Call the web service method
      convertedAmount = port.convertCurrency(fromCurrency, toCurrency, amount);
    } catch (Exception e) {
      out.println("Error: " + e.getMessage() + "");
    }
```

```
// Display the result if available
if (convertedAmount != 0) {
    out.println("<h3>Converted Amount: " + convertedAmount + "</h3>");
}
%>
</div>
</body>
</html>
```

## **OUTPUT:**

## **Currency Converter Currency Converter**

From Currency: USD ~	From Currency: USD >
To Currency: EUR ~	To Currency: EUR >
Amount:	Amount:
Convert	Convert

Converted Amount: 1200.0