Exercises – Java Services & Web Services

WebMethods Integration Workshop

WebMethods CoE
Cognizant Technology Solutions

Contents

Java Services:

Exercises:

1. Write a java service to concatenate 5 strings. The service should allow user to enter 5 strings and give the concatenated string as output.

   Ex:

Input	
String1	A
String2	B
String3	C
String4	D
String5	E
Output	
Result	ABCDE

   Str1 =A,Str

2. Write a java service to convert string list to string. The service should accept string list and delimiter as inputs and give the final string.

   Ex:

Input	
StringList StringList[0] StringList[1] StringList[2] StringList[3] StringList[4]	 A B C D E
Delimiter	,
Output	
Result	A,B,C,D,E

3. Write a java service to write documentList to .csv file.

   Ex:

Input – DocumentList with below fields	
String1	A
String2	B
String3	C
String4	D
String5	E

fileName	.csv file name to which the output needs to be written.
Output	
Result	Should provide the status of the file creation and path

Web Services:

Create a table named **shippingDetails** with the following details **orderId, orderName, orderQty, totalCost, supplierName, deliveryLoc, shippingMode,orderType,orderStatus ,orderDate:**

shippingDetails

Field names	Datatype	Constraint
orderId	Varchar2(10)	Not Null
orderName	Varchar2(20)	
orderQty	numeric	
totalCost	numeric	
supplierName	Varchar2(20)	
deliveryLoc	Varchar2(20)	
shippingMode	Varchar2(20)	
orderType	Varchar2(20)	
orderStatus	Varchar2(20)	
orderDate	Date	

Create below services

1. getShippingDetails – to retrieve shipping details based on orderId from shippingDetails table
2. createShippingRequest – to insert shipping details to shippingDetails table
3. updateShippingDetails - to update shipping details in shippingDetails table based on orderId
4. deleteShippingRequest – to delete shipping details from shippingDetails table based on orderId

SOAP Web Services

Exercises:

Providers:

1. Create a web service provider with 4 operations in it.

   getShippingDetails

   createShippingRequest

updateShippingDetails

deleteShippingRequest

2. Create a web service consumer with the wsdl from above provider.
3. Create a web service provider from the wsdl below.

4. Create a header handler in the above web service provider to track the header details.

REST Web services:

Exercises:

1. Create a REST service “manageShippingDetails” with
   _get - getShippingDetails
   _put - createShippingRequest
   _post - updateShippingDetails
   _delete - deleteShippingRequest
   options.

   This REST service should accept Content-Type as application/json.

2. Create a REST service “manageShippingDetails” with
   _put - createShippingRequest
   _post - updateShippingDetails
   Options. This REST service should accept Content-Type as application/xml.
   (Hint: The rest service should contain “contentStream” object as input.)

3. Create a REST client service to invoke above created “manageShippingDetails” to get the shipping details and based on OrderID and update the shipping details.

   Use **Content-Type** as **application/json**.