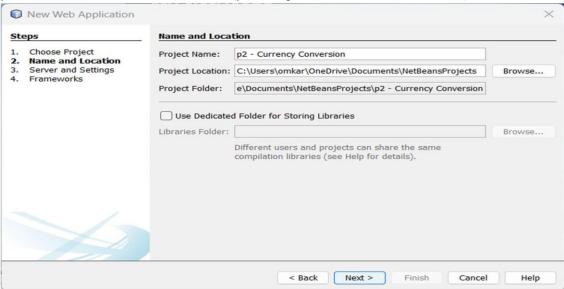
Roll no: 18

Practical 2 - Create a Simple SOAP service:

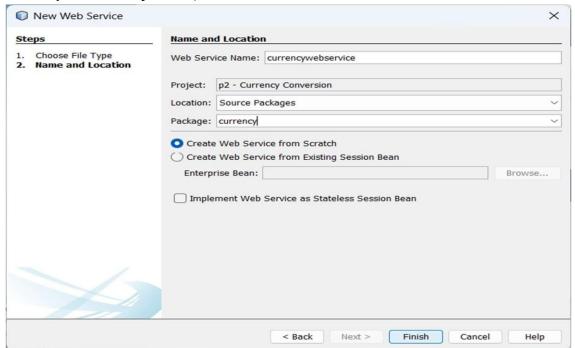
Aim: Define a simple web service like converting Rs into Dollar and call it from different platform like JAVA and .NET.

Steps:

Step 1: Create a Web Application: File > New Project > Java Web > Web Application > Name: p2 > Add GlassFish Server 4.1 > Finish > (you will get index.html, delete this file).



Step 2: Create a Web Service in that project: Right Click on Project Name > New > Web Service... > Name: currencywebservice and Package Name: currency > OK > (you will get currencywebservice.java file).



Step 3: As we have created our WEB SERVICE (i.e. currencywebservice), WE'LL NOW ADDSOME FUNCTIONALITIES (i.e. temperature conversion methods). So, in the class currencywebservice, add 2 methods by doing:

a) Right Click > Insert Code > Add Web Service Operation...>

Name: INRtoDOLL >

Return Type: string >

Add a Parameter 'INR' with Type: double > OK >

Now add formula in return statement: (INR + "rupees in dollar are " + (INR/83.11)).

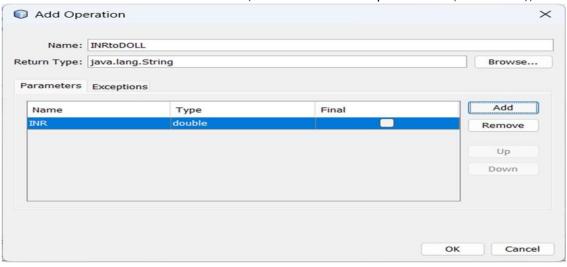
b) Right Click > Insert Code > Add Web Service Operation...>

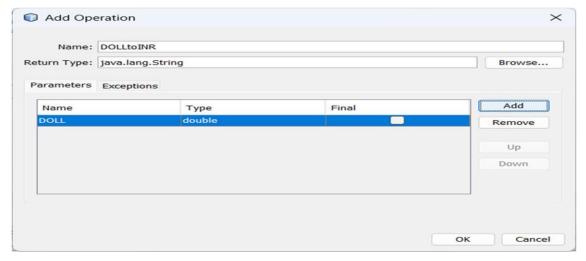
Name: DOLLtoINR >

Return Type: string >

Add a Parameter 'DOLL' with Type: double > OK >

Now add formula in return statement: (DOLL + "dollars in rupees are " + (DOLL*83.11)).



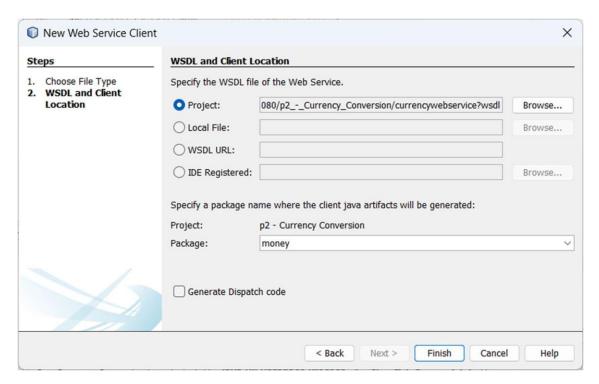


Step 4: Compile(F9) and Deploy (right click on Project Name > Deploy).

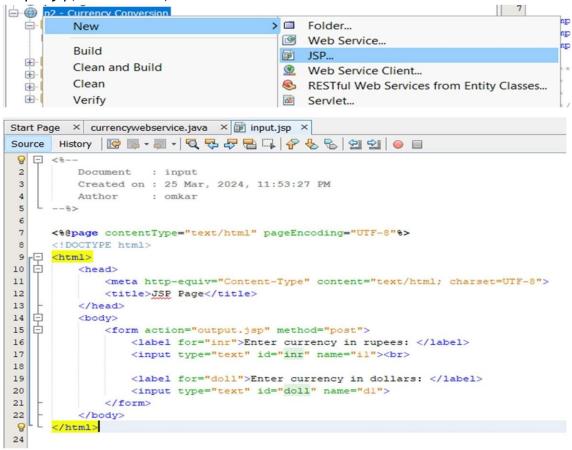
Step 5: Now we will test our web service. So, navigate to: Projects > Project Name > Web Services > right click on currencywebservice > click Test Web Service > (the browser will open). (currencywebservice here is a WSDL file).

← C
currencywebservice Web Service Tester
This form will allow you to test your web service implementation (WSDL File)
To invoke an operation, fill the method parameter(s) input boxes and click on the button labeled with the method name.
Methods:
public abstract java.lang.String currency.Currencywebservice.dolLtoINR(double) dolLtoINR (10)
public abstract java.lang.String currency.Currencywebservice.inRtoDOLL(double) inRtoDOLL (200
dolLtoINR Method invocation
Method parameter(s)
Type Value double 10
Method returned
java.lang.String: "10.0 dollars in rupees is 831.1"

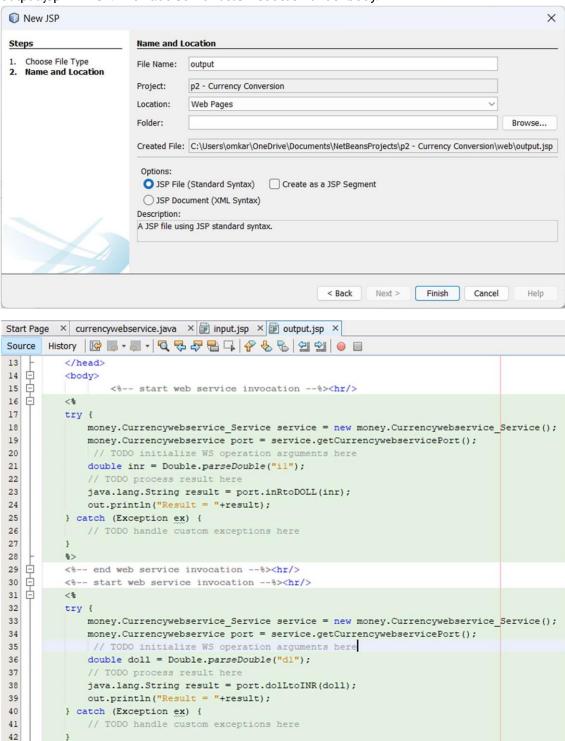
Step 6: Now we will be using the created Web Service (i.e. currencywebservice) by creating our WEB SERVICE CLIENT. So, Right Click on Project Name > New > Other > Web Services > Web Service Client... > Browse your Project Name and select WSDL file > Add Package Name: money > Finish.



Step 7: Now to make front page, we need to create a JSP file. So, Right Click on Project Name > New > JSP > File Name: input > Finish. • Now from the palette, add HTML Form (Action: output.jsp, Method: Post).



Step 8: Now to create the action behind that, we will create another JSP file, with a name that is declared in the previous JSP file. So, Right Click on Project Name > New > JSP > File Name: output.jsp > Finish. Then add some <%JSP code%> under body.



Step 9: Now RUN "index.jsp" file.

Step 10: Finish!

Outputs:

← → C
Enter currency in rupees: 110
Enter currency in dollars: 76
Reset Submit
← C
Result = 110.0 rupees in dollar is 1.323547106244736
Result = 76.0 dollars in rupees is 6316.36