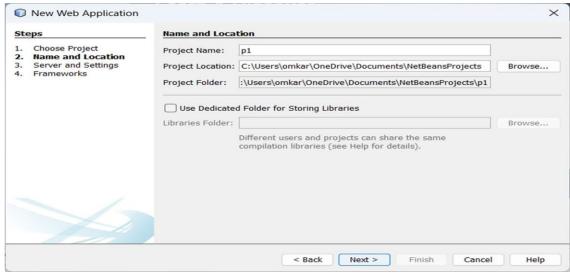
Name: Nisha Yadav Roll no: 18

Practical 1 - Create a Simple SOAP service

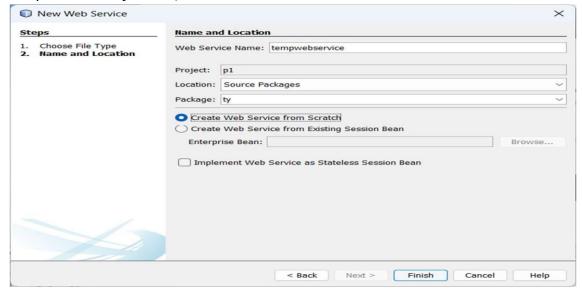
Aim: To create a Simple Web Service that converts the temperature from Celsius to Fahrenheit and vice versa.

Steps:

Step 1: Create a Web Application: File > New Project > Java Web > Web Application > Name: p1 > 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: tempwebservice and Package Name: ty > OK > (you will get tempwebservice.java file)



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

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

Name: convertFtoC >

Return Type: float >

Add a Parameter 'a' with Type: float > OK >

Now add formula in return statement ((a-32)*5/9).

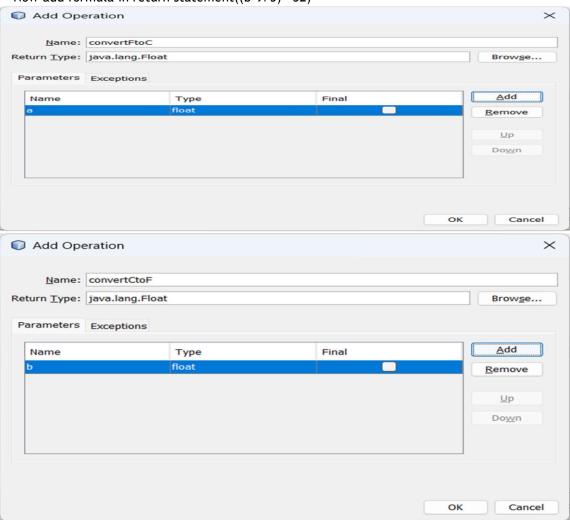
b) Right Click > Insert Code > Add Web Service Operation...>

Name: convertCtoF >

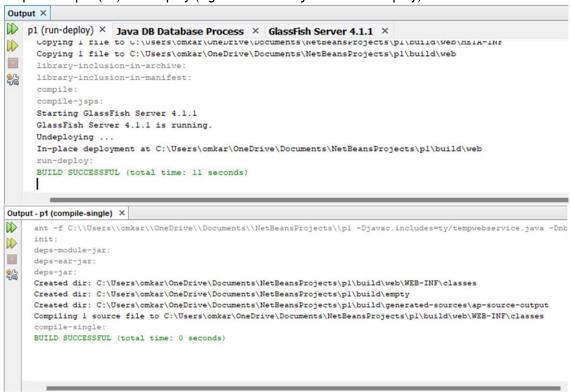
Return Type: float >

Add a Parameter 'b' with Type: float > OK >

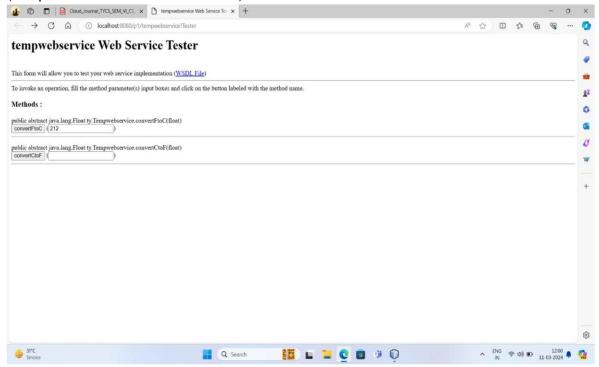
Now add formula in return statement((b*9/5) +32)

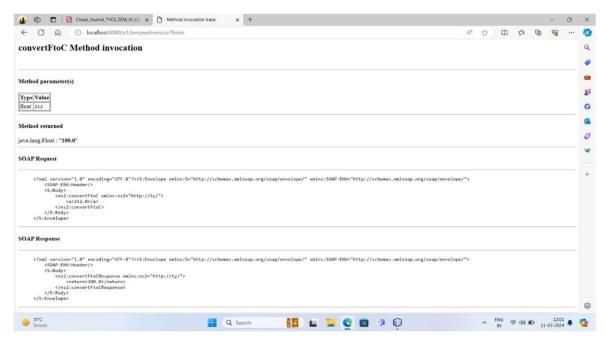


Step 4: Compile(F9) and Deploy (right click on Project Name > Deploy).

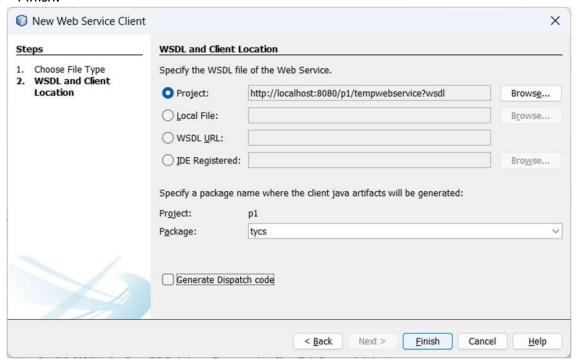


Step 5: Now we will test our web service. So, navigate to: Projects > Project Name > Web Services > right click on tempwebservice > click Test Web Service > (the browser will open). (tempwebservice here is a WSDL file).

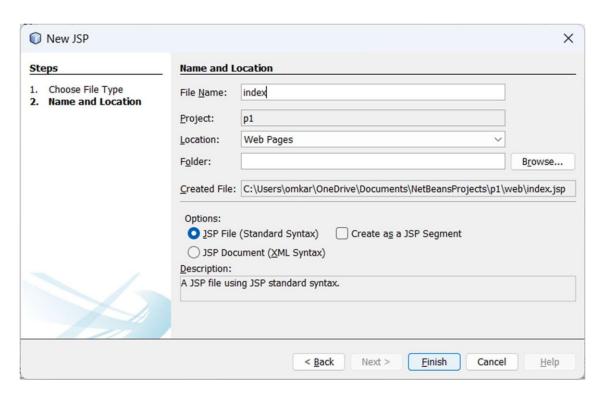




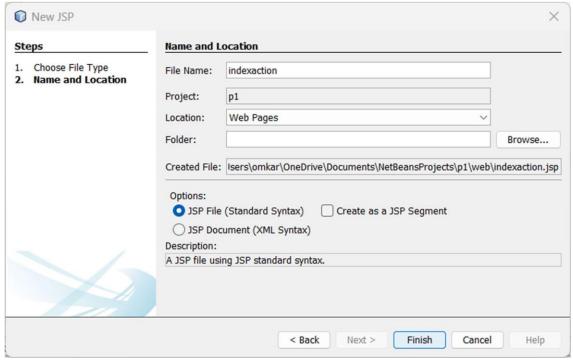
Step 6: Now we will be using the created Web Service (i.e. tempwebservice) by creating our WEB SERVICE CLIENT. So, Right Click on Project Name > New > Other > Web Services > Web Service Client... > Browse your Project Name and select WSDL file > Add Package Name: tycs > Finish.



Step 7: Now to make front page, we need to create a JSP file. So, Right Click on Project Name > New > JSP > File Name: index > Finish. □ Now from the palette, add HTML Form (Action: indexaction.jsp, Type: text, Method: Post) □ Inside Form tag, add Text Input (Name: txt) □ Inside Form tag, add Button (Label: Convert, Type: submit, Name: convert).



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: indexaction.jsp > Finish. Then add some <%JSP code%> under body.



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

Step 10: Finish!

Outputs:

