**Aim: Simple SOAP Service**

**Step 1: Create New Project**

> Open Netbeans

> Go To File > New Project > Java Web > Web Application

> Create Project

**Step 2: Create New Web Service**

> Right Click on Project name

> New > Other > Web Services > Web Service > Next

> Set Service Name = 'TempWebService'

> Set Package = 'pkg.webservices'

> Finish

**Step 3: Create Operation in WS**

> Go To 'Web Services' > 'TempWebService'

> Right Click on it > Add Operation

> Set Name as 'convertFtoC'

> Click on Add & Set >

Parameter = num

Type = double

> Then Ok

Repeat Above steps to create 'convertCtoF' operation.

Step 4: Set Operations Code

@WebMethod(operationName = "converFtoC")

public String converFtoC(@WebParam(name = "num") double num) {

//TODO write your implementation code here:

return "Celcius: " + (num-32)\*5/9;

}

@WebMethod(operationName = "convertCtoF")

public String convertCtoF(@WebParam(name = "num") double num) {

//TODO write your implementation code here:

return "Fahreheit: " + (num\*9/5)+32;

}

Step 5: Set index.html

> Web Pages > index.html

> Set Following Code in index.html:

<html>

<head>

<title>Rs To Dollar Web Service</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width">

</head>

<body>

<form action="output.jsp">

Convert Fahrenheit to Celcius:

<input type="text" name="f"/>

<input type="submit" value="Submit"/>

</form>

<form action="output.jsp">

Convert Celsius to Fahreheit:

<input type="text" name="c"/>

<input type="submit" value="Submit"/>

</form>

</body>

</html>

Step 6: Set output.jsp

> Create output.jsp file by >

> Right Click on Project Name > New > JSP

> Set Following code in output.jsp:

<%

pkg.webservices.TempWebService tempService = new pkg.webservices.TempWebService();

try {

double f = Double.parseDouble(request.getParameter("f"));

String result = tempService.converFtoC(f);

out.println(result);

} catch (Exception e) {

}

try {

double c = Double.parseDouble(request.getParameter("c"));

String result = tempService.convertCtoF(c);

out.println(result);

} catch (Exception e) {

}

%>

Step 7: Run Project

> Right Click on Project > Run