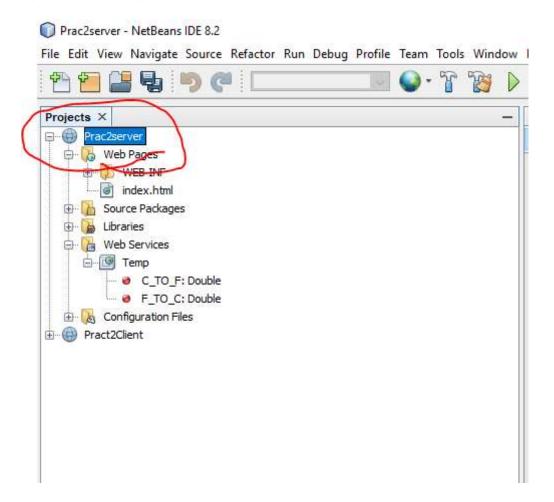
Practical No.2

Aim:- Create a Simple SOAP Web Service.

Steps: Client Side

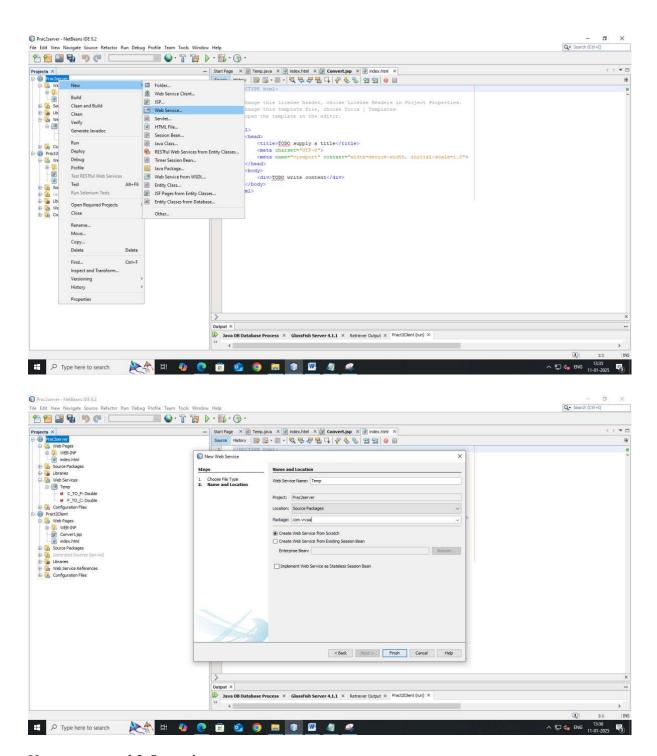
1)Open Netbeans 8.2

2)Click file > New Project > Select Java Web > next > name project name(Prac2Server) > next > next > Finish



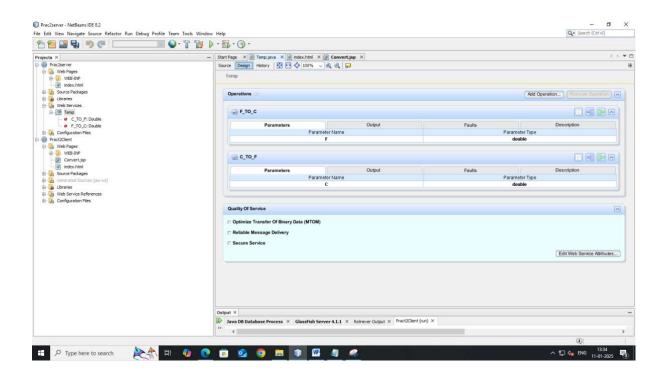
3)To create Web service:

Click prj name(Prac2Server) > new > web service > web service name(Temp) and package name(com.viva) > Finish



Here we created 2 Operations

- a) F_To_C
- b) C_To_F



We added the following code for Conversion of temperatures from Celcius to Farenheit and vice versa.

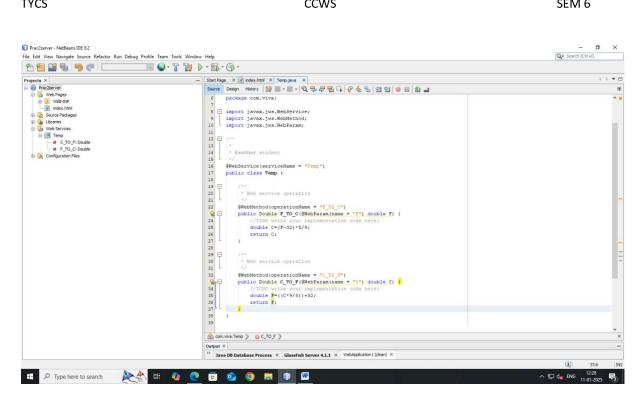
```
Code:
```

```
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
package com.viva;
import javax.jws.WebService;
import javax.jws.WebMethod;
import javax.jws.WebParam;
/**
* @author student
@WebService(serviceName = "Temp")
public class Temp {
  /**
   * Web service operation
```

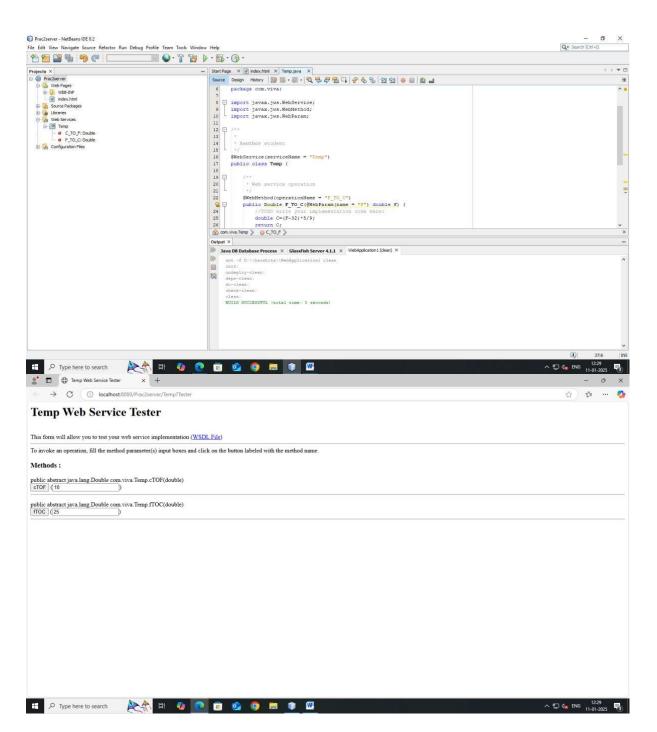
@WebMethod(operationName = "F TO C")

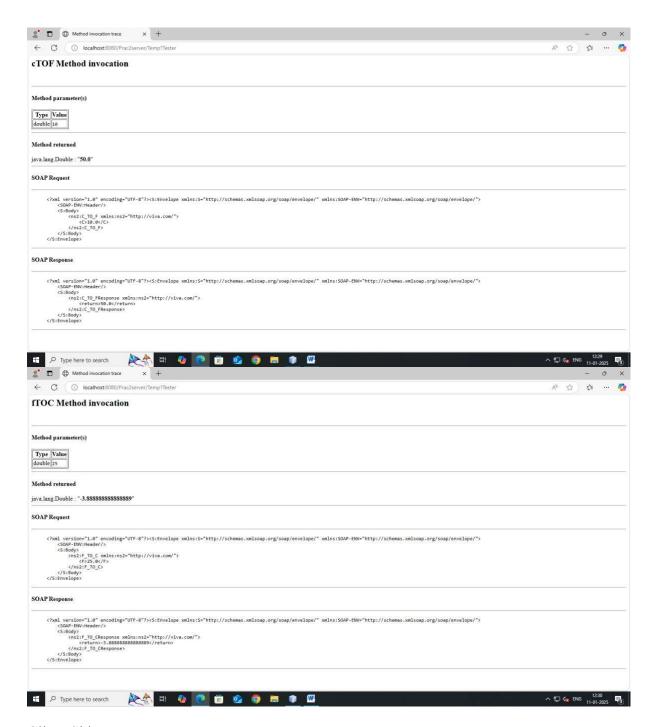
public Double F_TO_C(@WebParam(name = "F") double F) {

```
//TODO write your implementation code here:
    double C=(F-32)*5/9;
    return C;
  /**
  * Web service operation
  @WebMethod(operationName = "C TO F")
  public Double C_TO_F(@WebParam(name = "C") double C) {
    //TODO write your implementation code here:
    double F=((C*9/5))+32;
    return F;
  }
}
<html>
  <head>
    <title>TODO supply a title</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
     <form action="Convert.jsp" method="post">
      <input type="text" name="t1">
      <input type="submit" value="show">
    </form>
  </body>
</html>
```



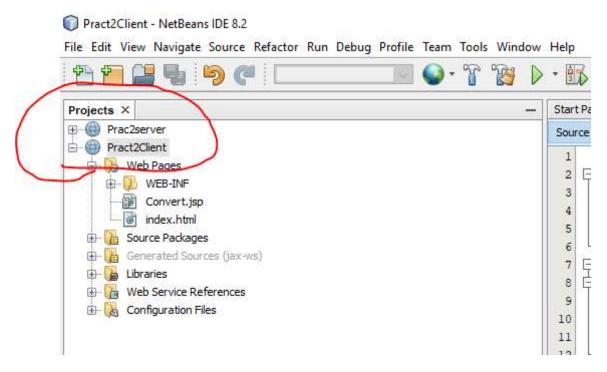
Build and deploy





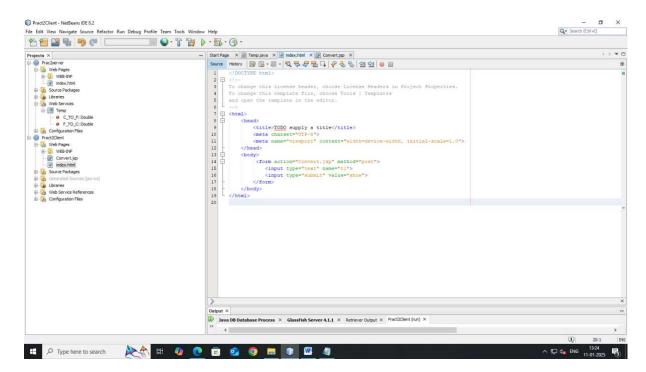
Client Side:

1)Click file > New Project > Select Java Web > next > name project name(Prac2Client) > next > next > Finish

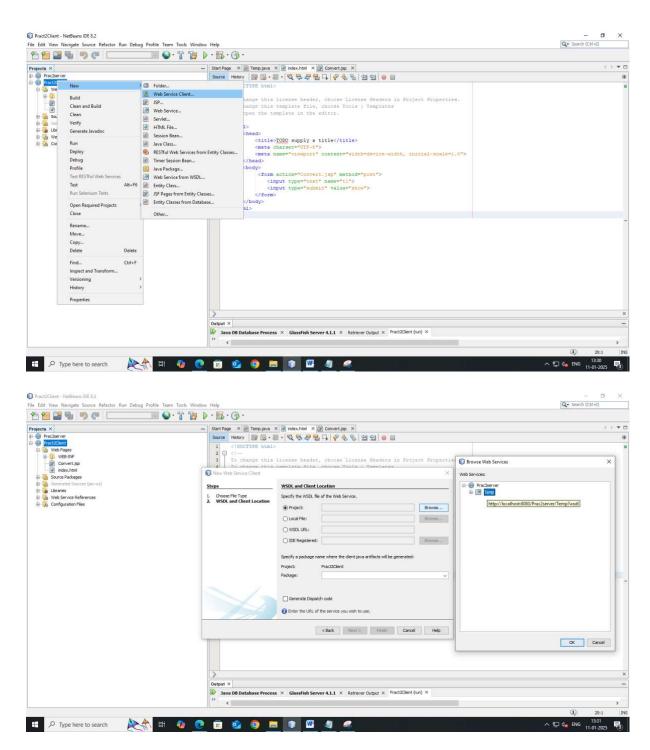


2) Add the following code in index.html of (Prac2Client)

```
<br/><body>
<form action="Convert.jsp" method="post">
<input type="text" name="t1">
<input type="submit" value="show">
</form>
</body>
```

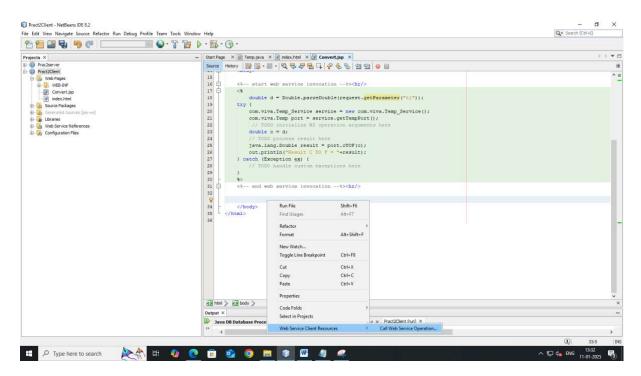


3) Click on Prac2Client > new > web service client > browse the temp

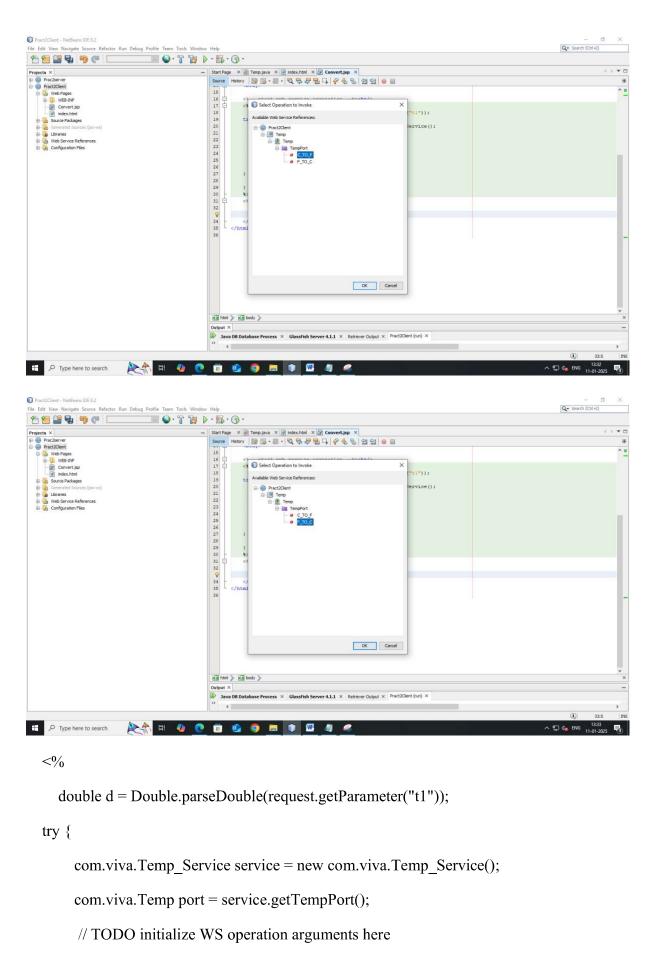


4)create a jsp page(Convert.jsp) (Remove the hello world)

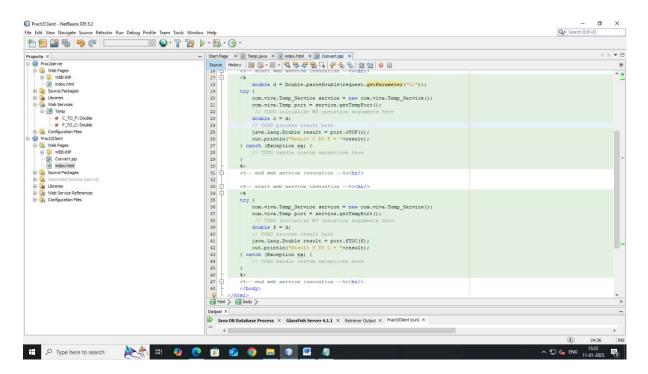
Right click in the body area > web service client resources >call web service operation



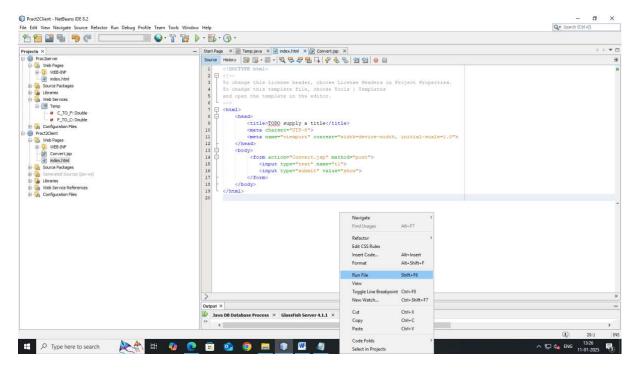
Add both (F_TO_C) and (C_TO_F)

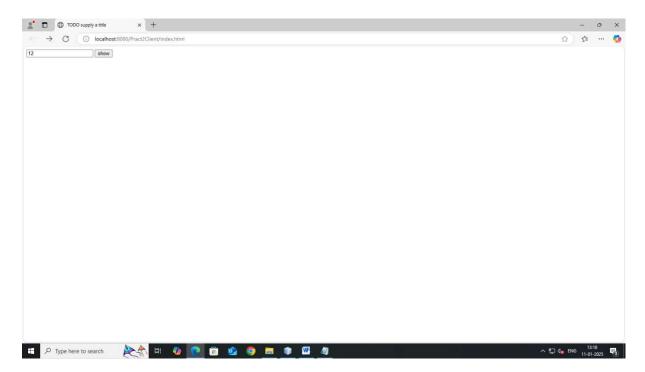


```
double c = d;
      // TODO process result here
      java.lang.Double result = port.cTOF(c);
       out.println("Result C TO F = "+result);
  } catch (Exception ex) {
      // TODO handle custom exceptions here
  }
  try {
       com.viva.Temp Service = new com.viva.Temp Service();
       com.viva.Temp port = service.getTempPort();
       // TODO initialize WS operation arguments here
       double f = d;
      // TODO process result here
      java.lang.Double result = port.fTOC(f);
       out.println("Result F TO C = "+result);
  } catch (Exception ex) {
      // TODO handle custom exceptions here
  }
  </body>
</html>
```



4) Run the index .html file (right click the and run)





Output:

