Experiment No.:01

Title: Installation and Configuration Webservices with NetBeans IDE

Creating webservices in NetBeans.

In this example program I will show you how you can make webservices in the Netbeans IDE. NetBeans IDE provides necessary GUI Tool to help the developers to quickly develop and deploy web services.

In this example we will

a) Develop webservices

b) Test the webservice

c) Develop client and call the webservice there

d) Finally deploy and test the application

Web Service can be added in a Web project or in Ejb project. Netbeans IDE helps the developers to easily develop and test the webservices. It's easy to make the Web Service program in Netbeans, which has Glassfish server by default.

Web Service program in Web Project
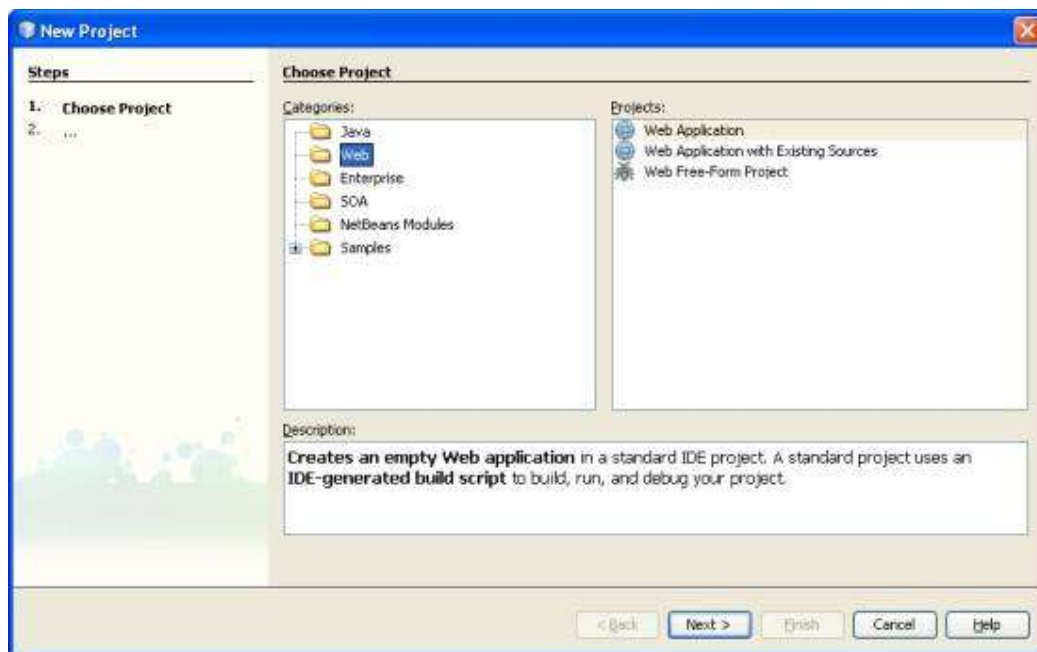In Netbeans take new web project in figure 1

Figure 1

Give project name   webservice1 as shown in figure 2
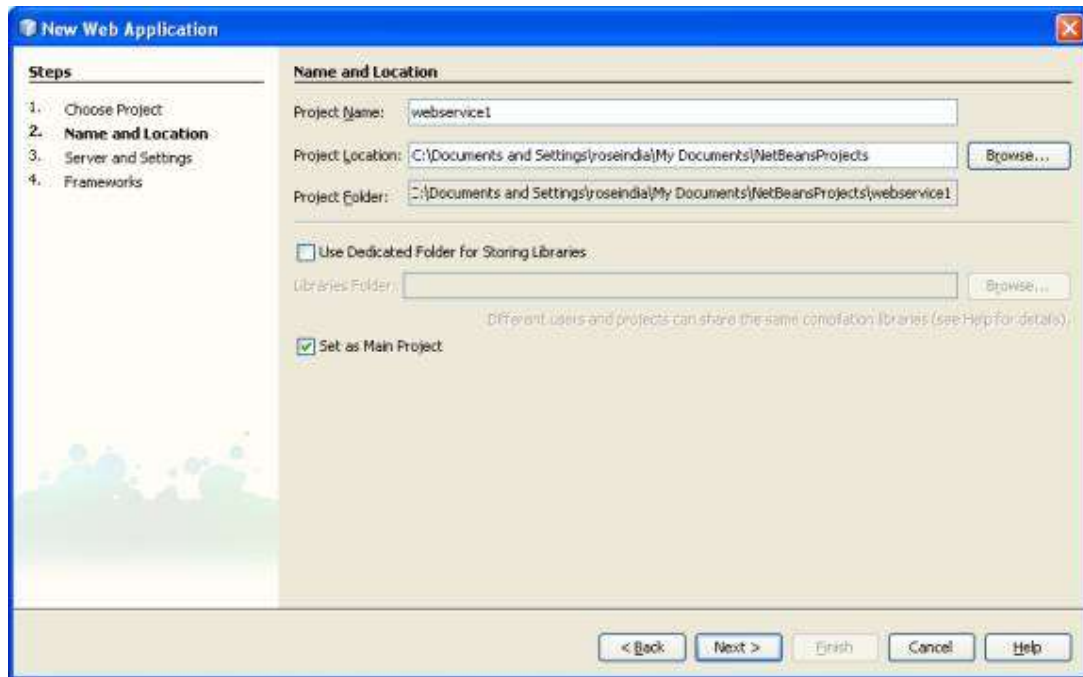

    Figure 2

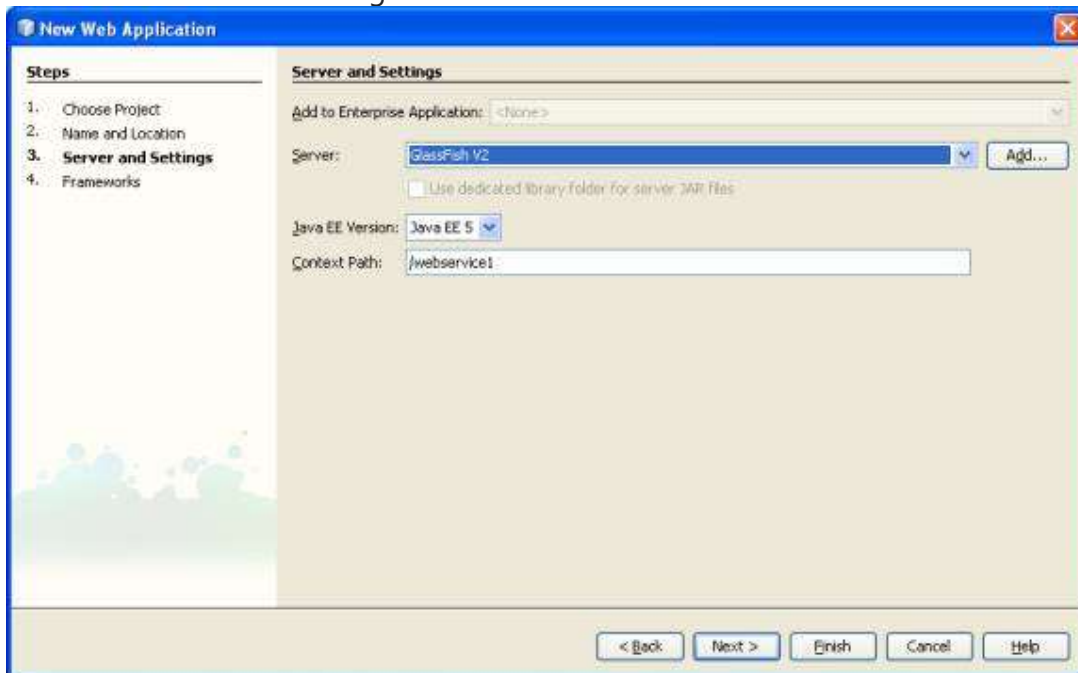Select the server name in figure 3

    Figure 3

Now Rt Click on the Web Service project in figure 4
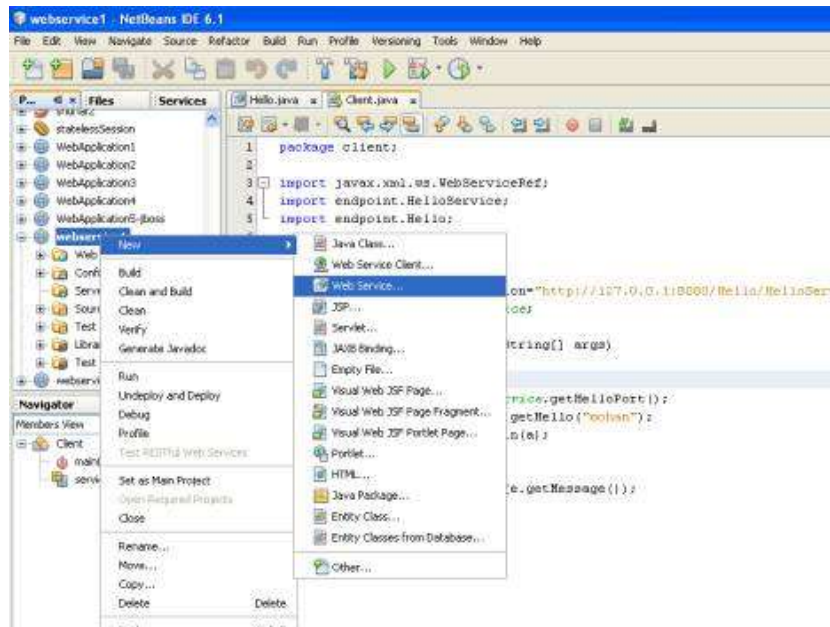
Select New->WebService

Figure 4

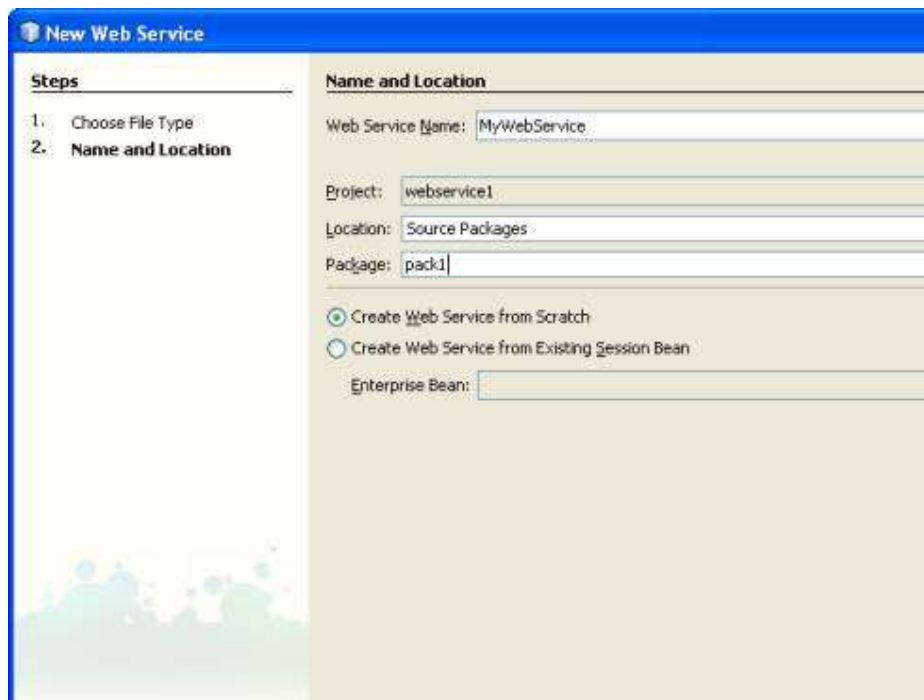Now give the name of the Web Service and package name figure 5

Figure 5

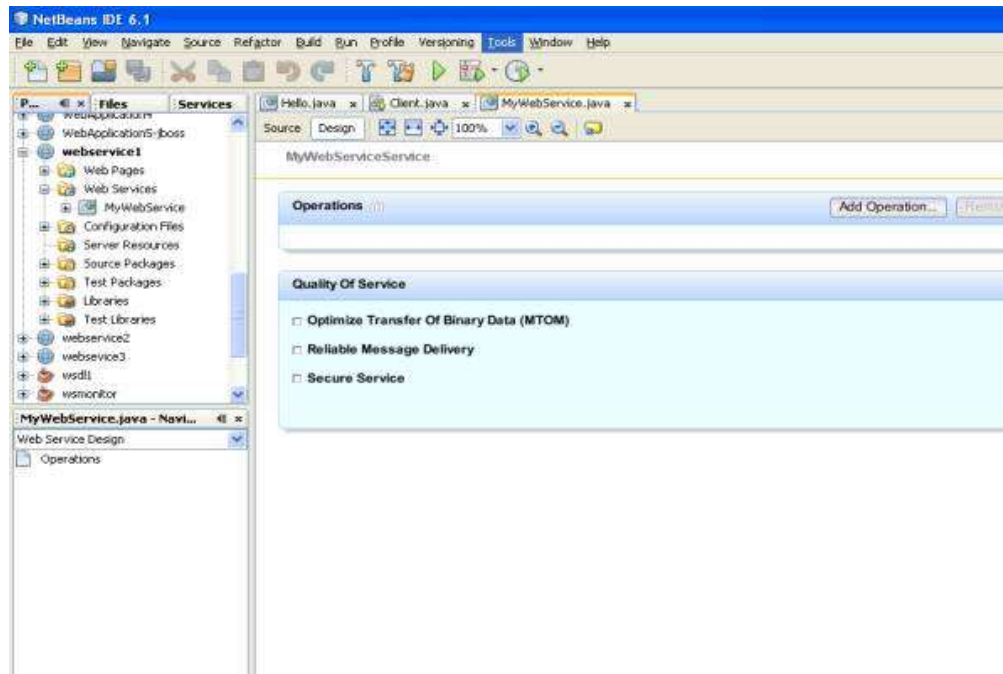Now In design view of Web Service click on Add Operation in figure 6

Figure 6

Here give the operation name and parameter name and type as shown in figure 7
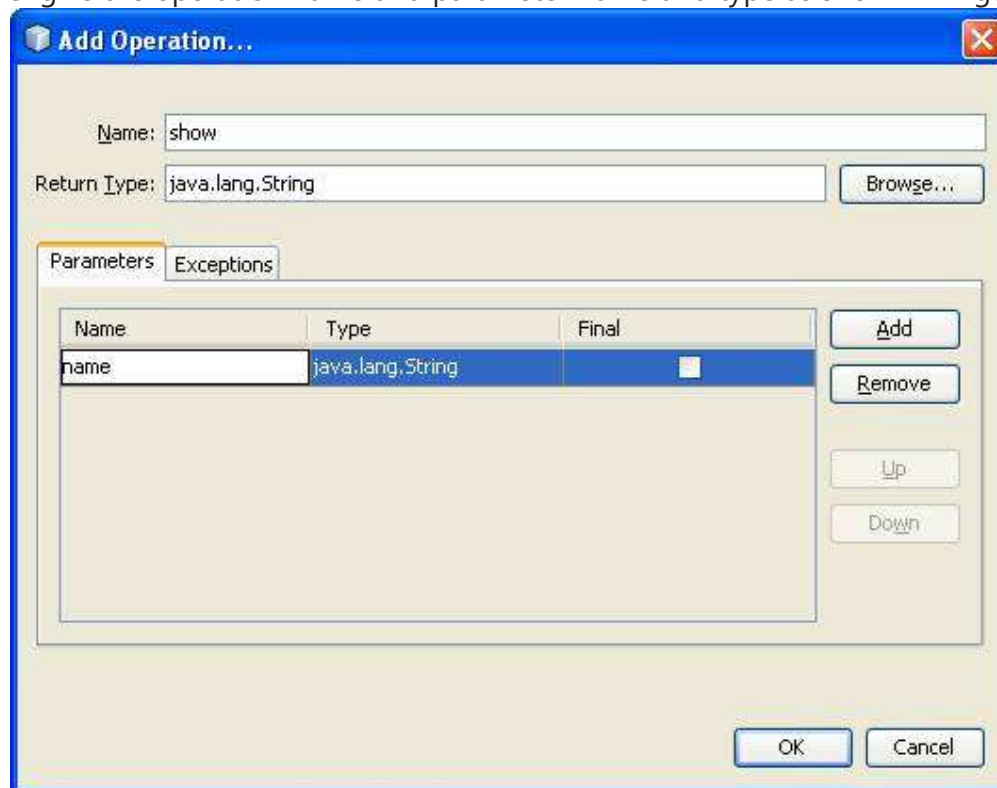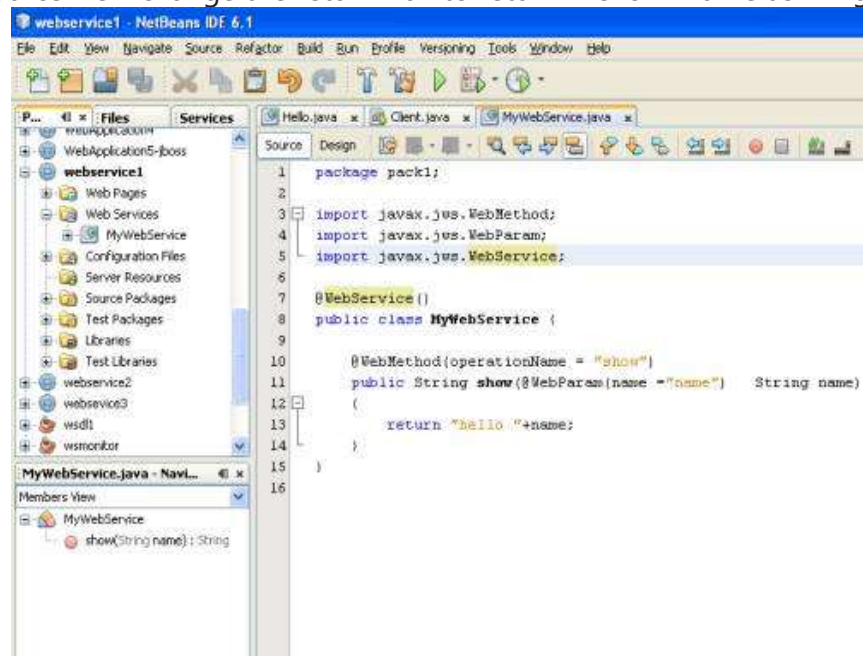

Figure 7

Now in source view change the return null to return "hello "+name as in figure 8

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Figure 8

Now Rt Click on the project and deploy it on the server as in figure 9
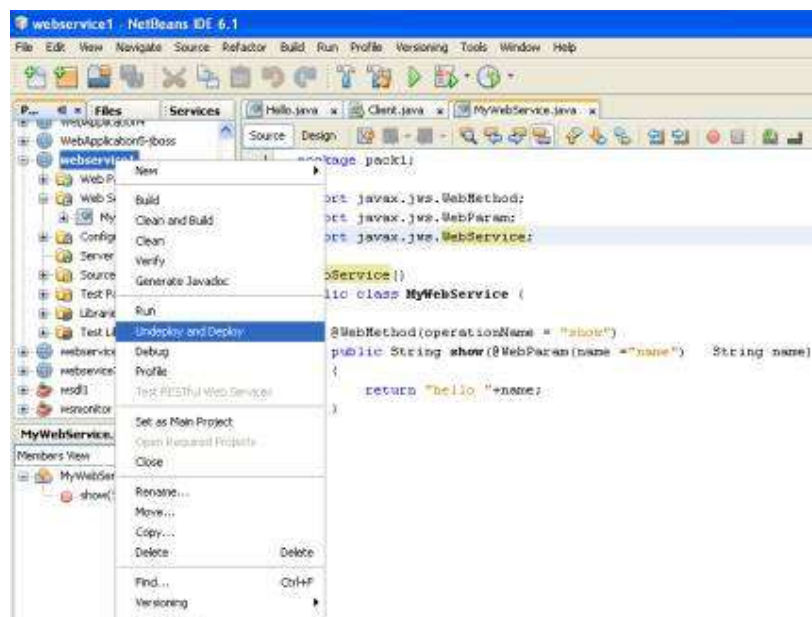

Figure 9

It will deploy the war file on to the server

Now test the web service program

Rt click on the MyWebService in web services folder and select Test Web Operation
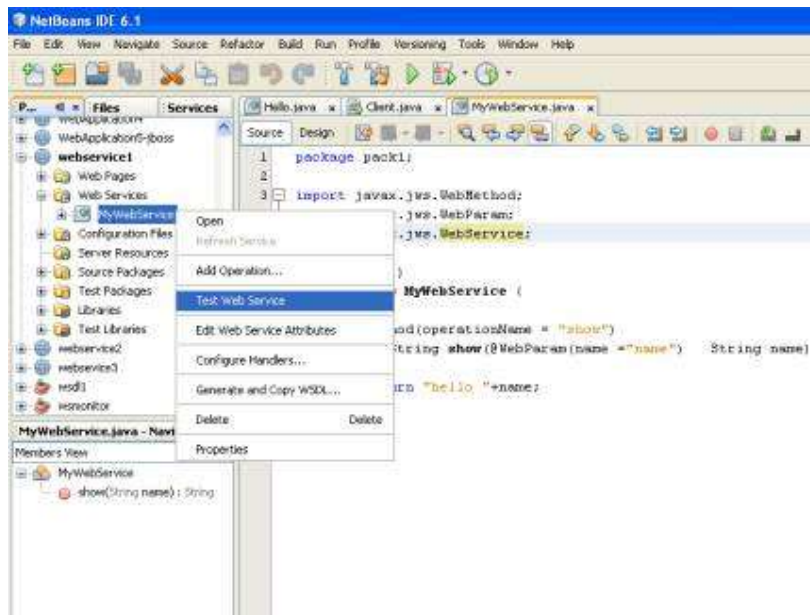as in figure 10

Figure 10

It will open the Web Service program in browser as in figure 11

Figure 11

Click on WSDL File in blue color .It will open the WSDL file in the browser as in figure 12
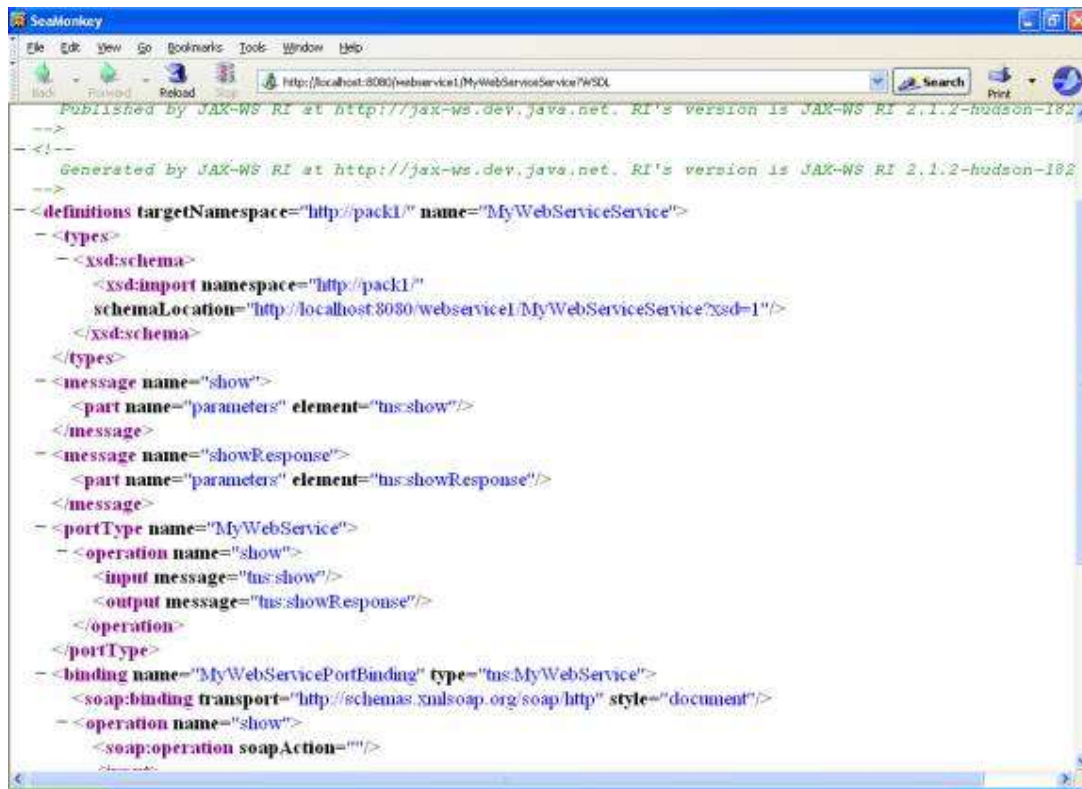

Figure 12

Now as in fig type the roseindia in the text field and click on show button as in Figure 13

figure 13

 It will return hello roseindia
It also give the SOAP request and SOAP response pf the Web Service as in figure 14
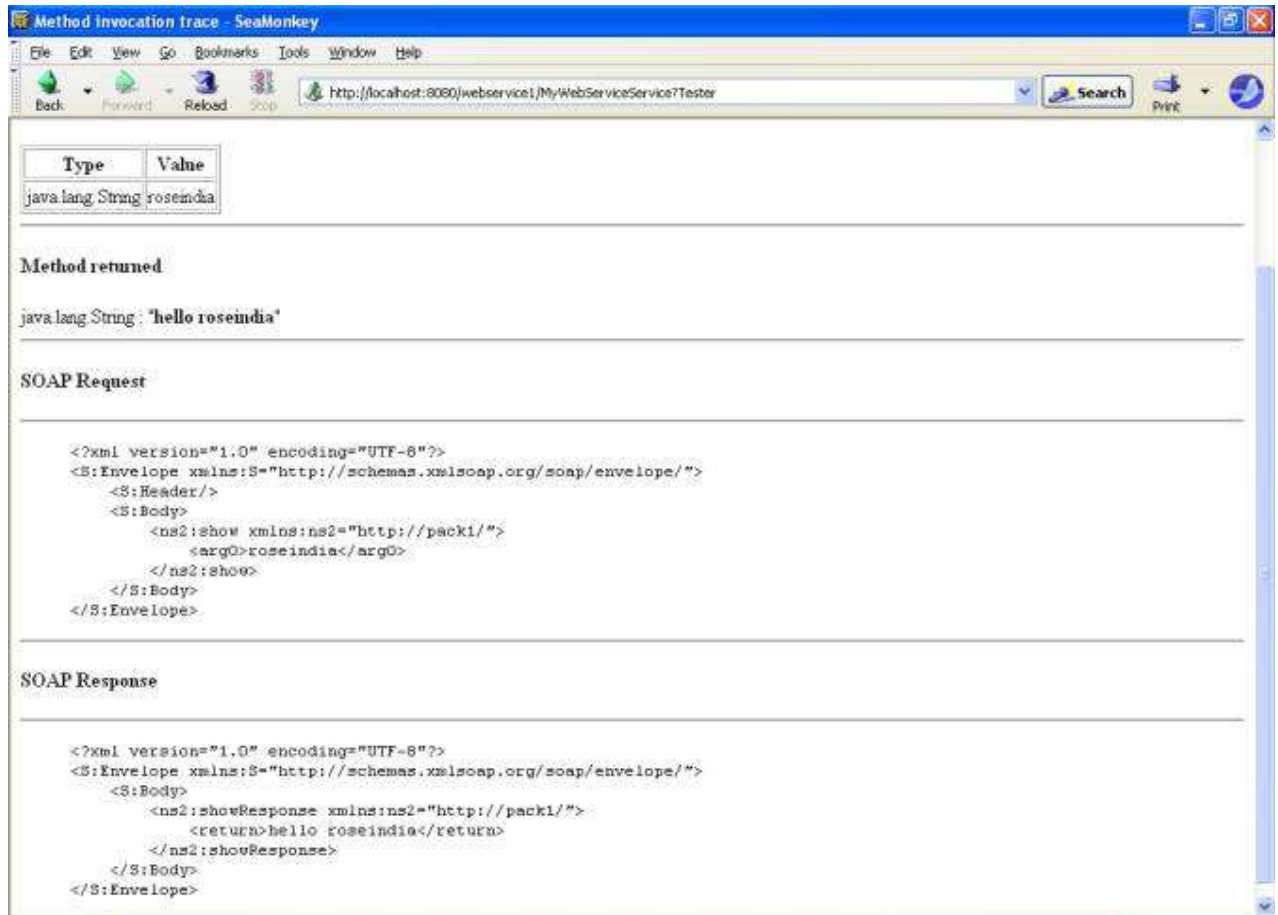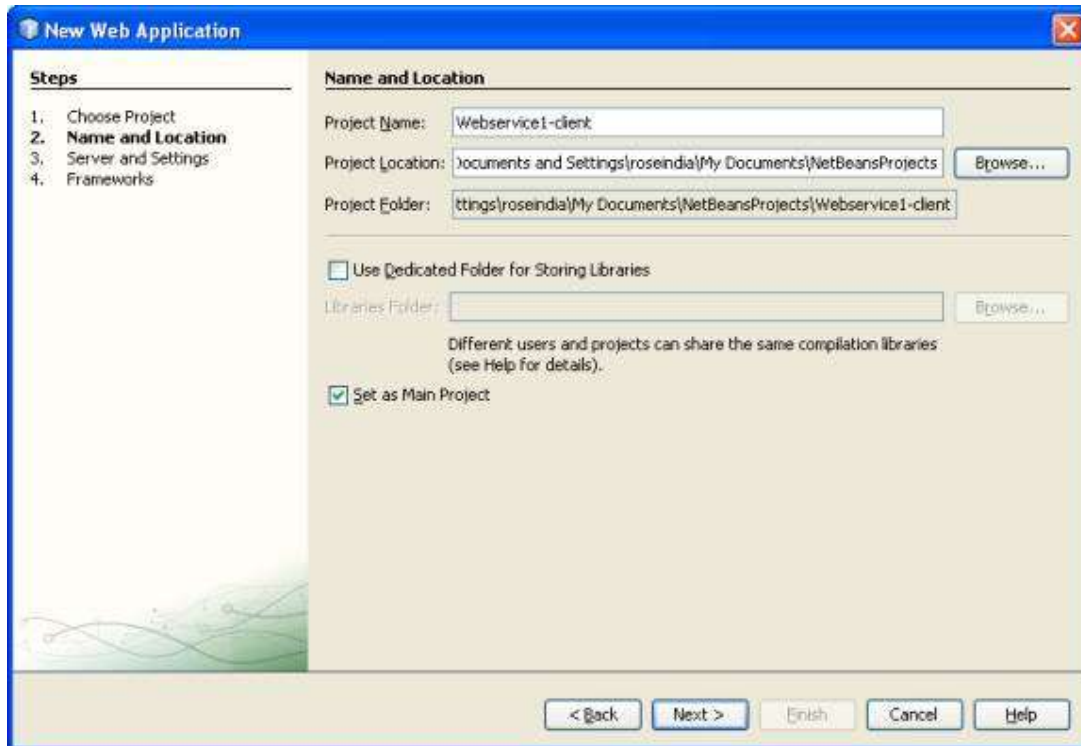

   Figure 14

Now make the client file.Client file can be java servlet ,jsp and standalone java file
Start a new web project as in figure 15.
Give project name as Webservice1-client

Now Rt. Click on the project select NewàWeb Service client

Here now select the WSDL file of the Web Service as in figure 15
Click on the Browse.
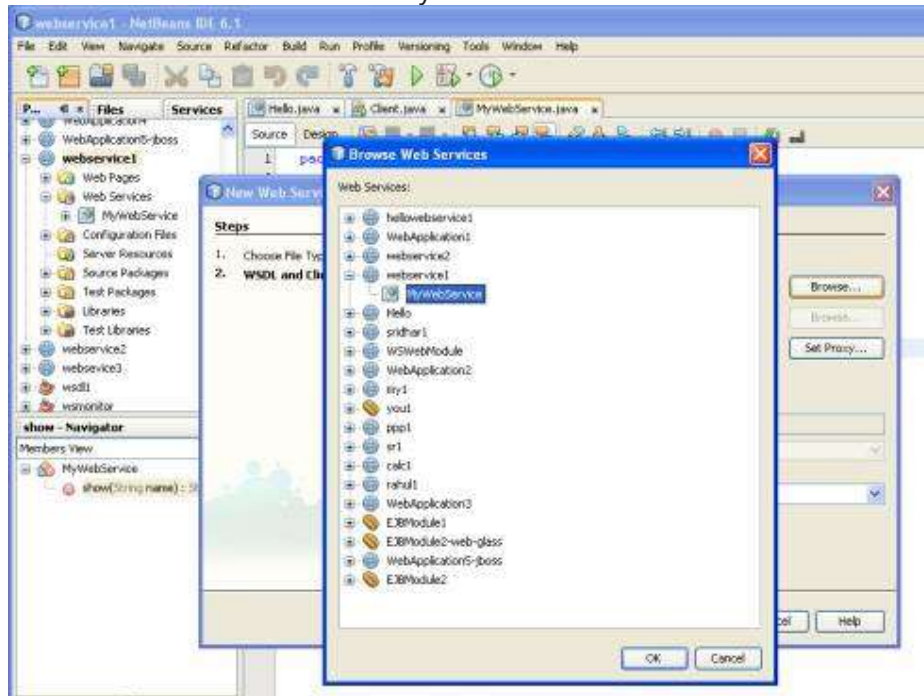
Now select the webservice1àMyWebService

Figure 15

It creates the Client environments for the Web Service   in the given project
Now make a Client   file by just taking a new Jsp file as in figure 16
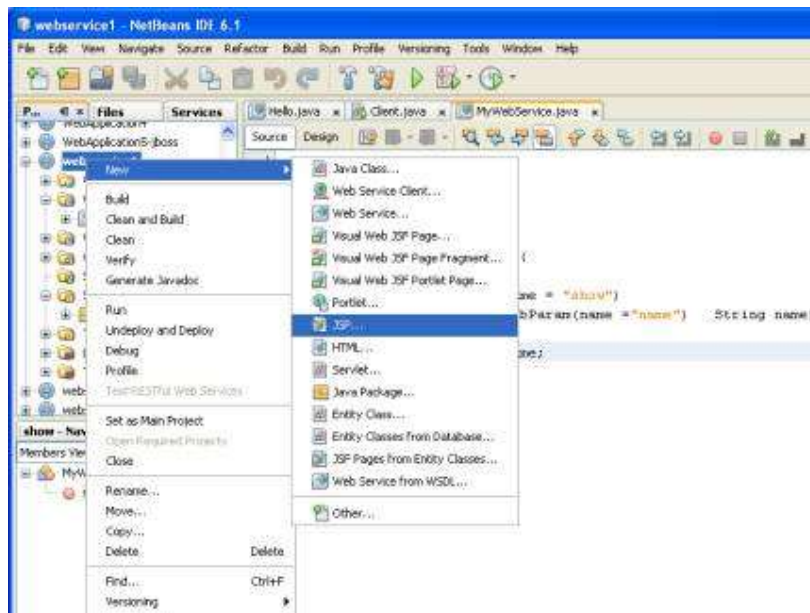

Figure 16

Give the file name as client.jsp
Rt click inclient.jsp file code and select Web Service Client resources -->Call Web
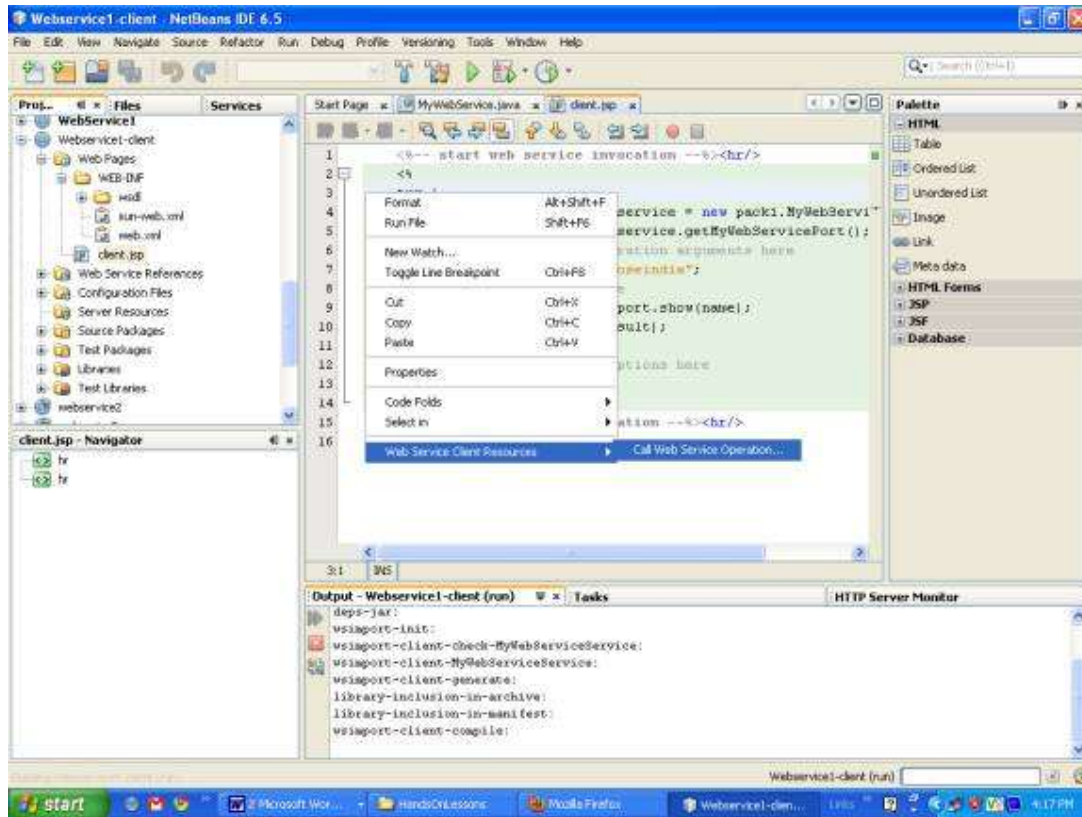Service Operation in figure 17

Figure 17

Select the web service project ->web service file->web service port->operation
name as in figure 18

   Figure 18
Change   the name ="null" to name="roseindia" as in figure 19
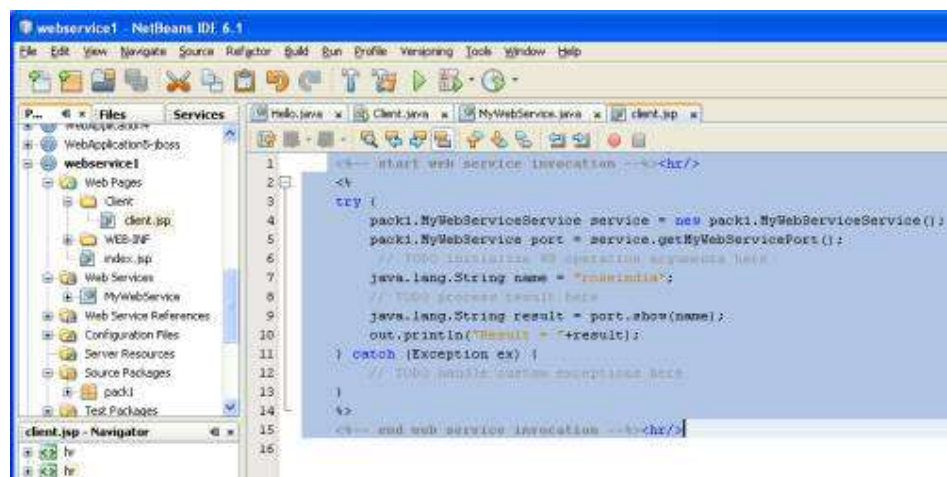

   Figure 19

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Rt click in client.jsp and select run client.jsp

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