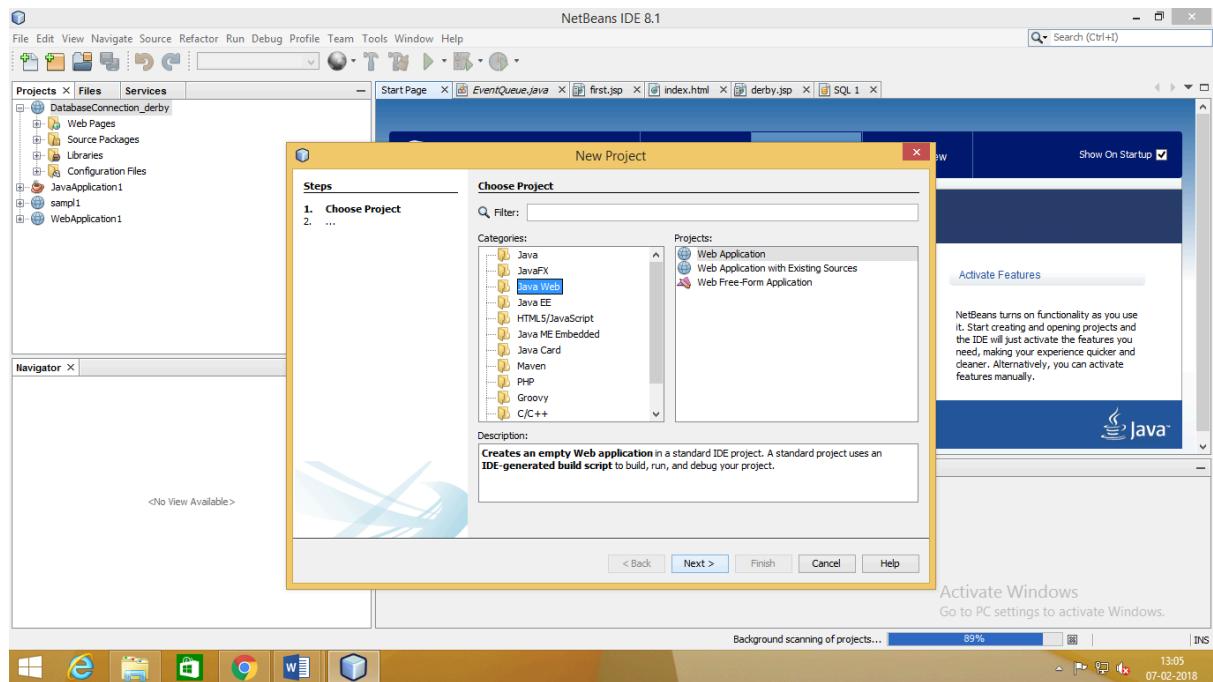


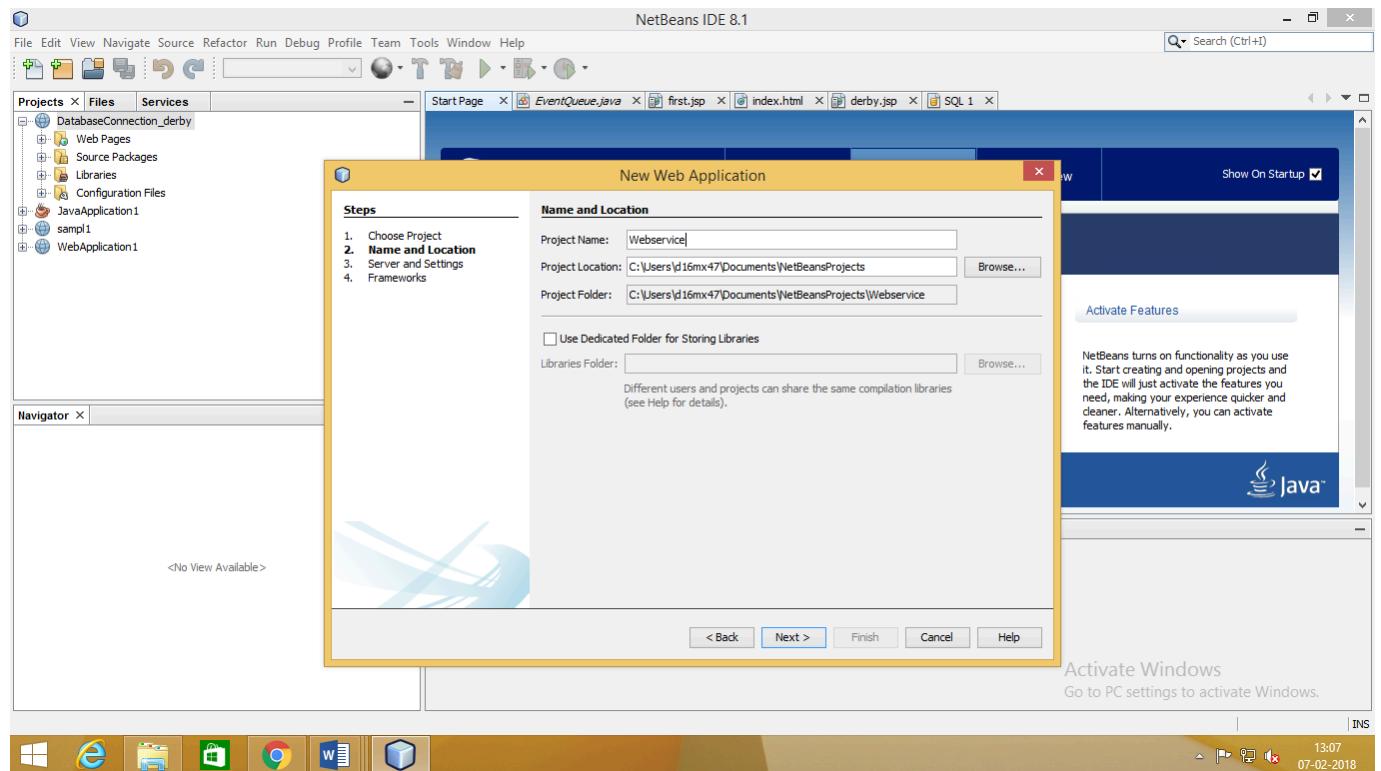
Develop a .NET client to access a J2EE web service

Steps to be followed

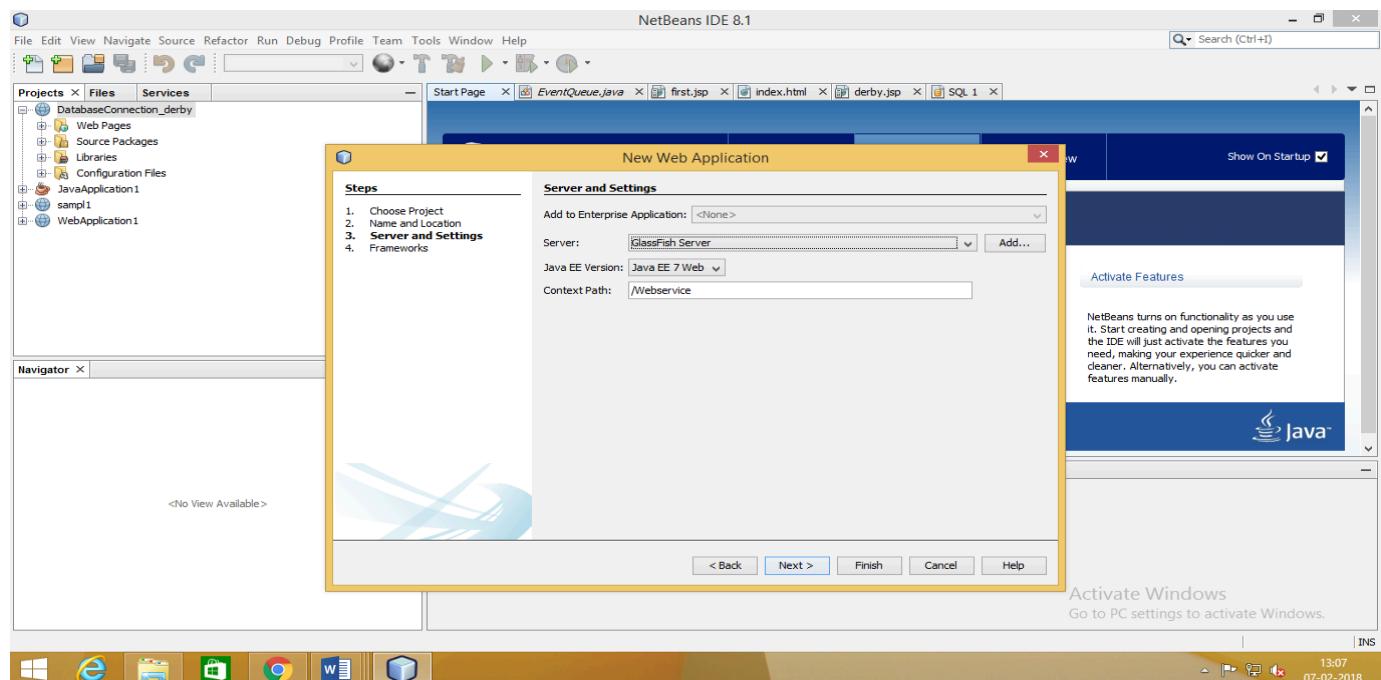
1.Create File->New project->java web->Web application



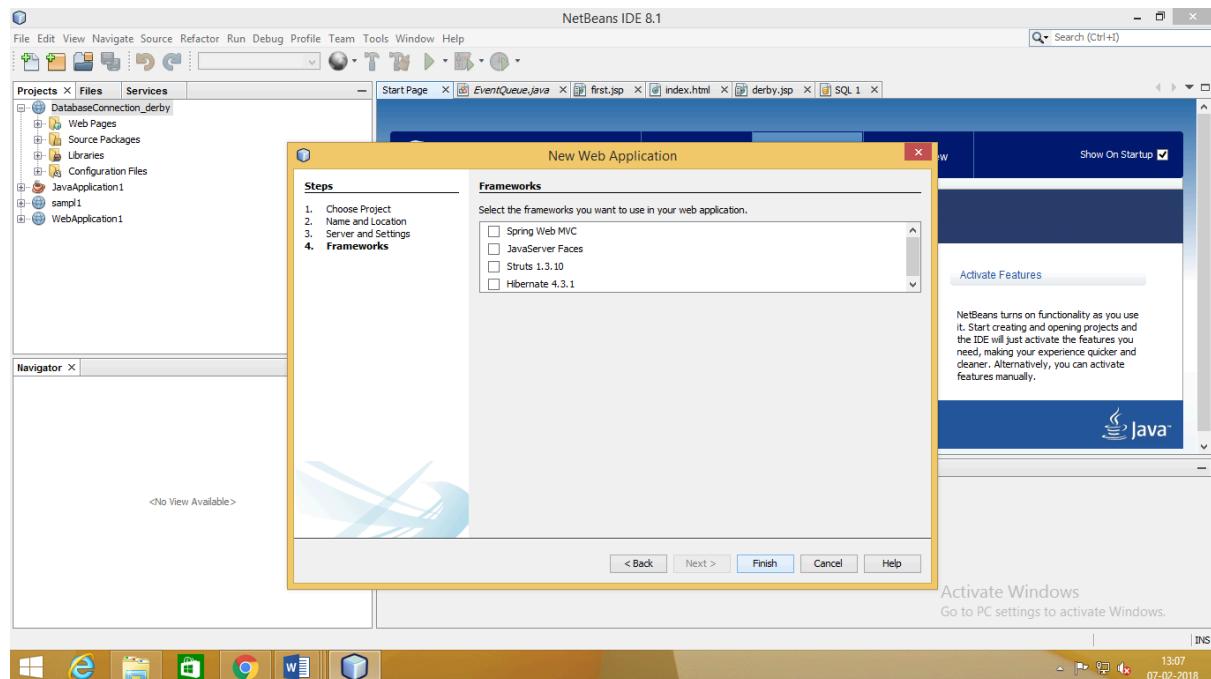
2. select Name and location



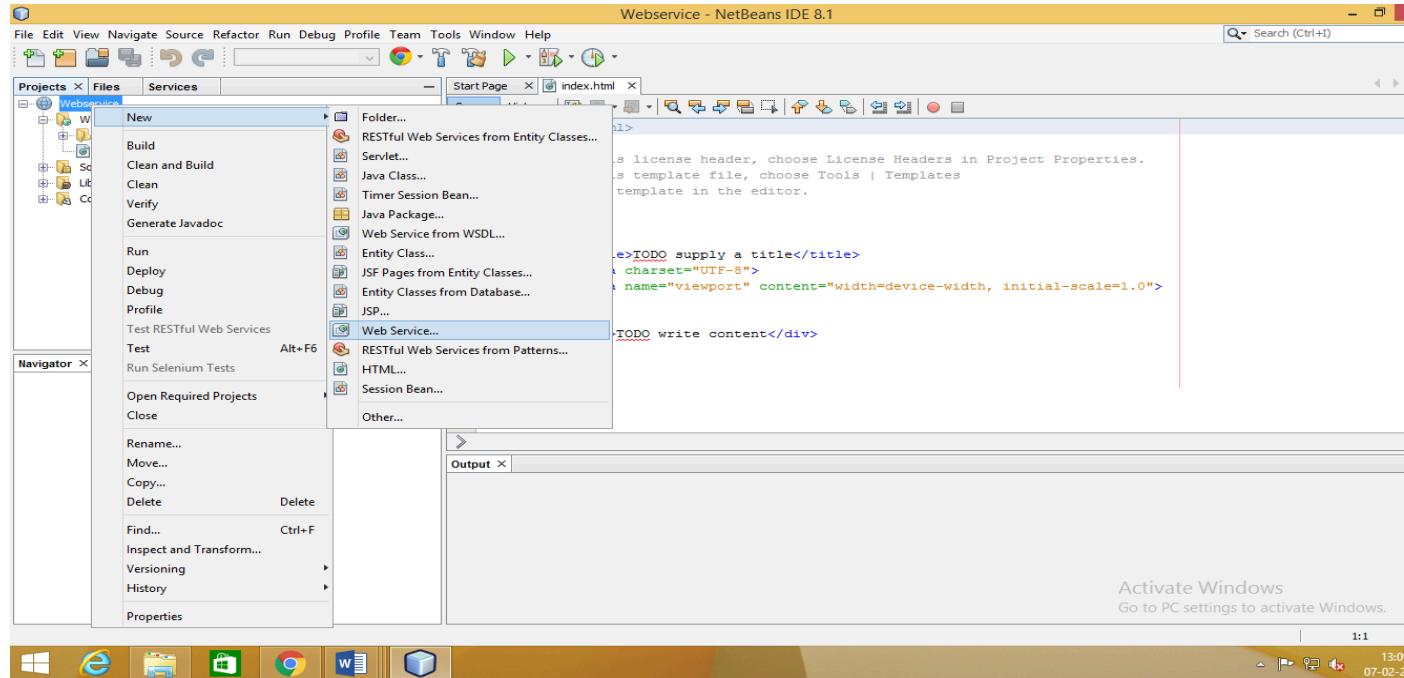
3. select a web server



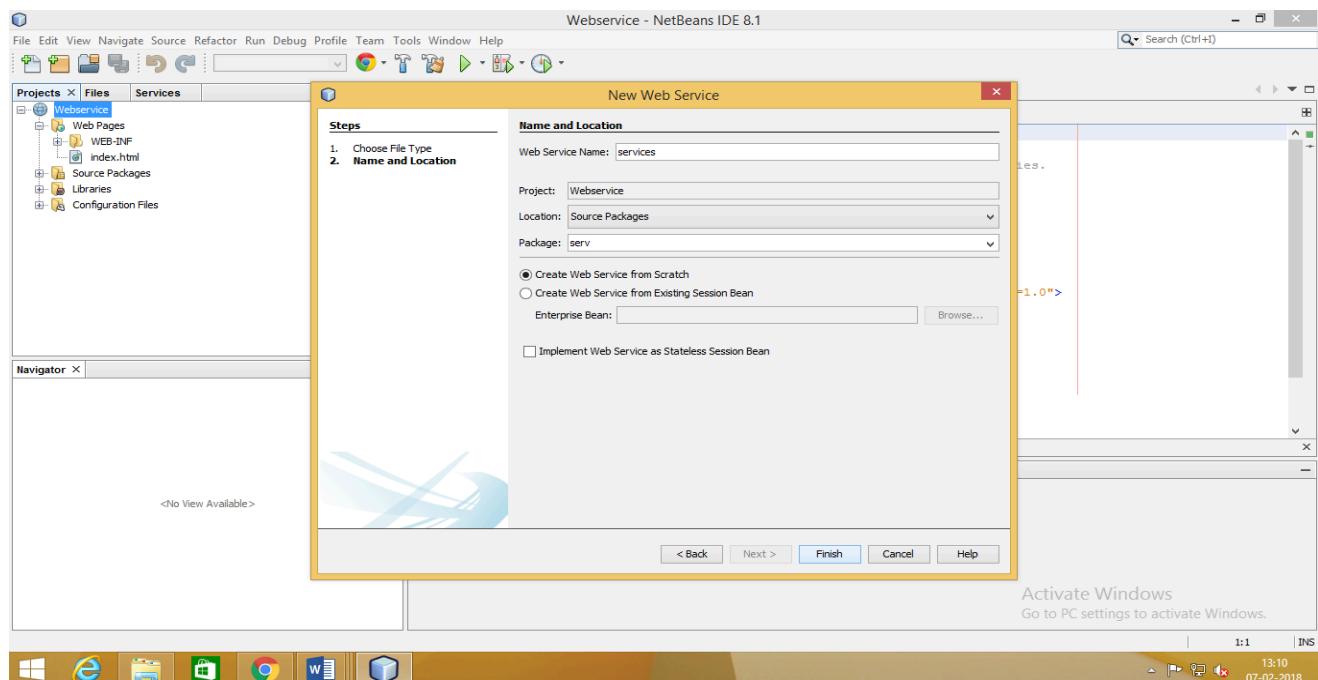
4. select finish



6.Rightclick Webapplication->new->Webservice



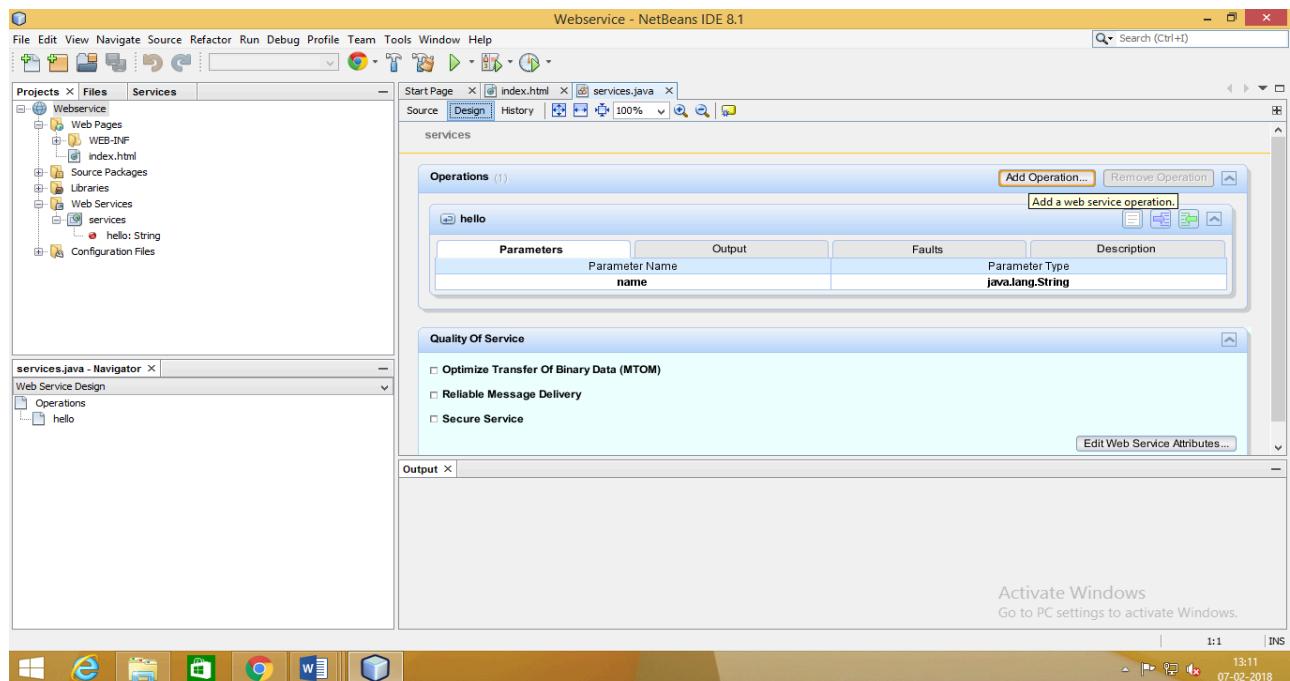
7.Give webservice name and package name



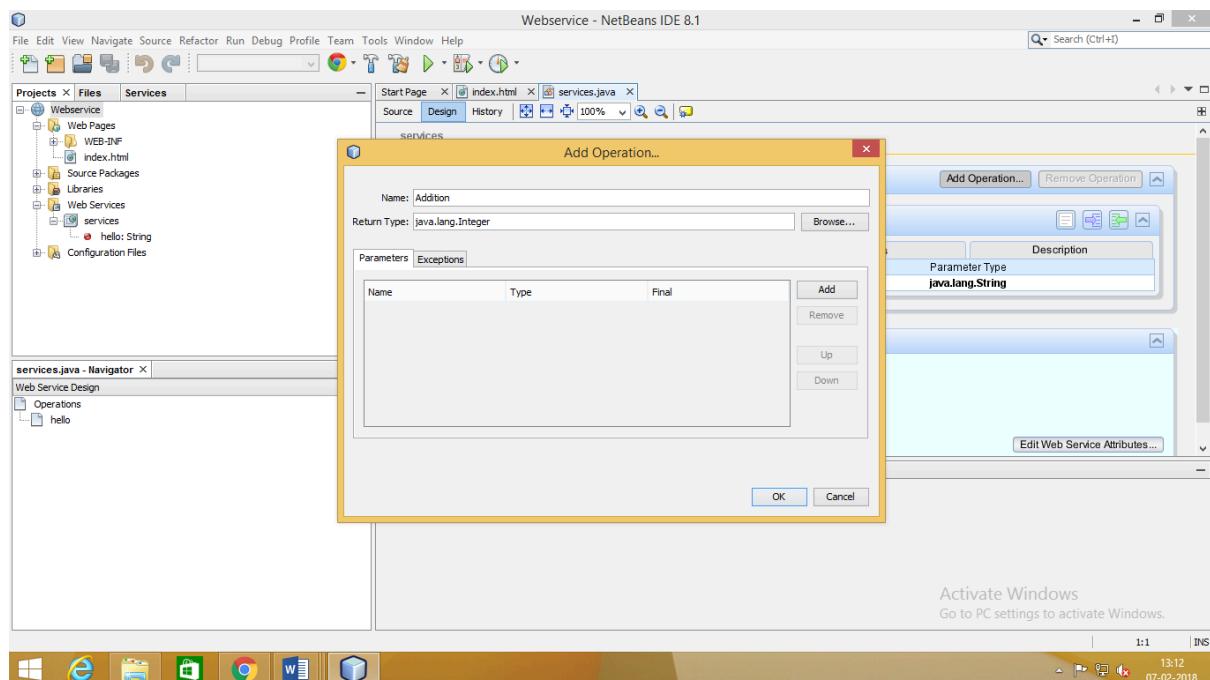
8. Services.java will created.

In that page click design and then

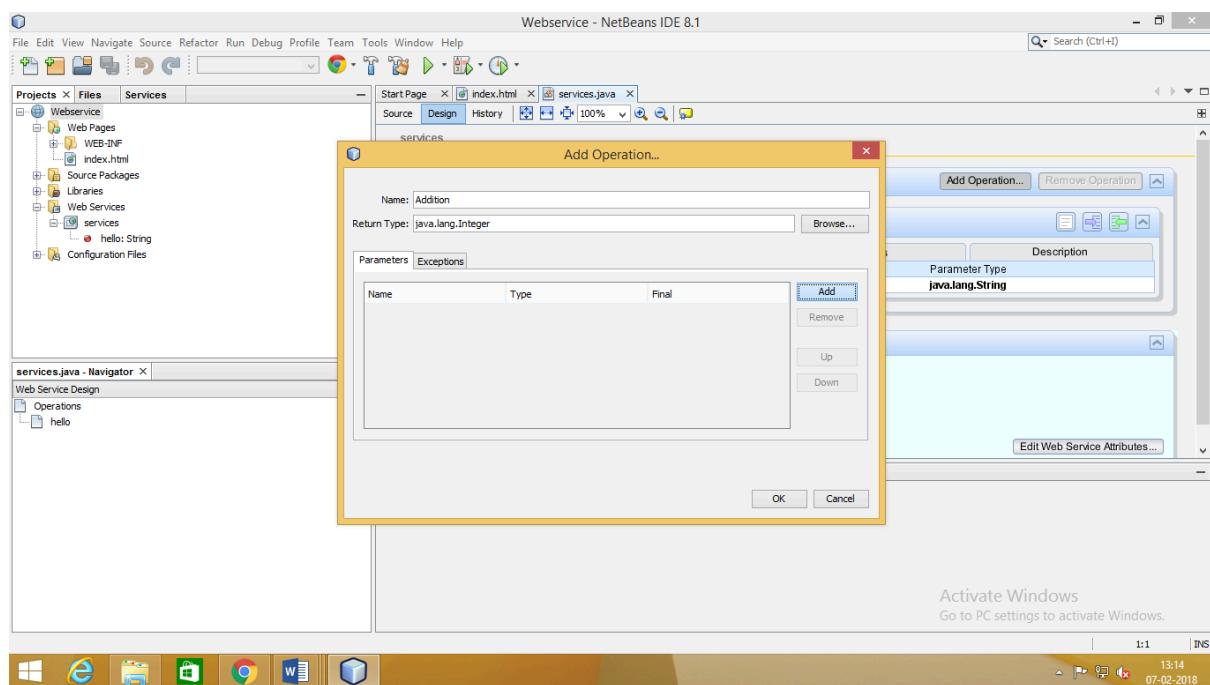
Add a operation called Addition

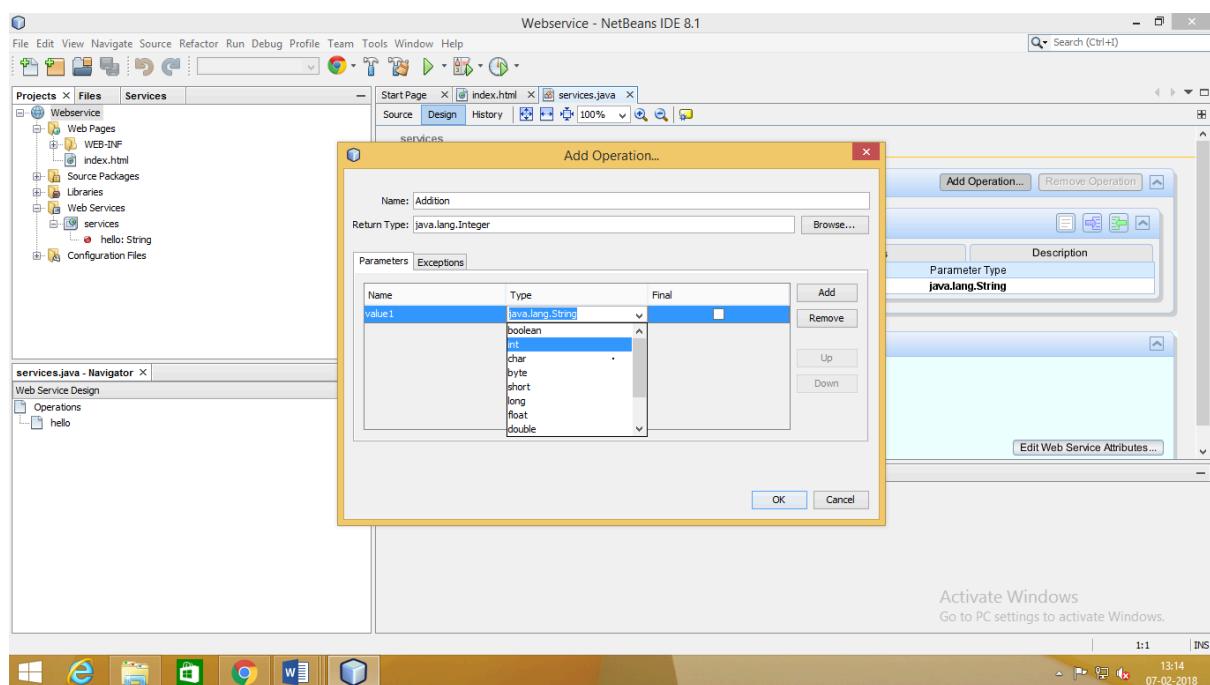
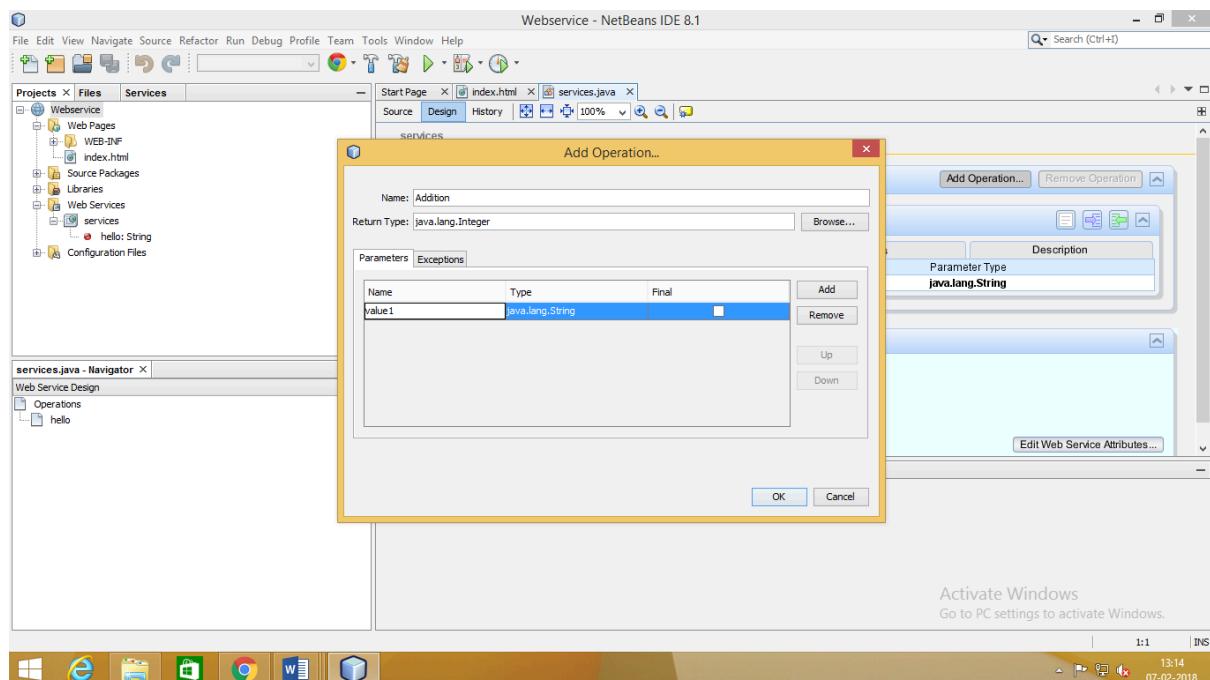


9. Change the name and return type

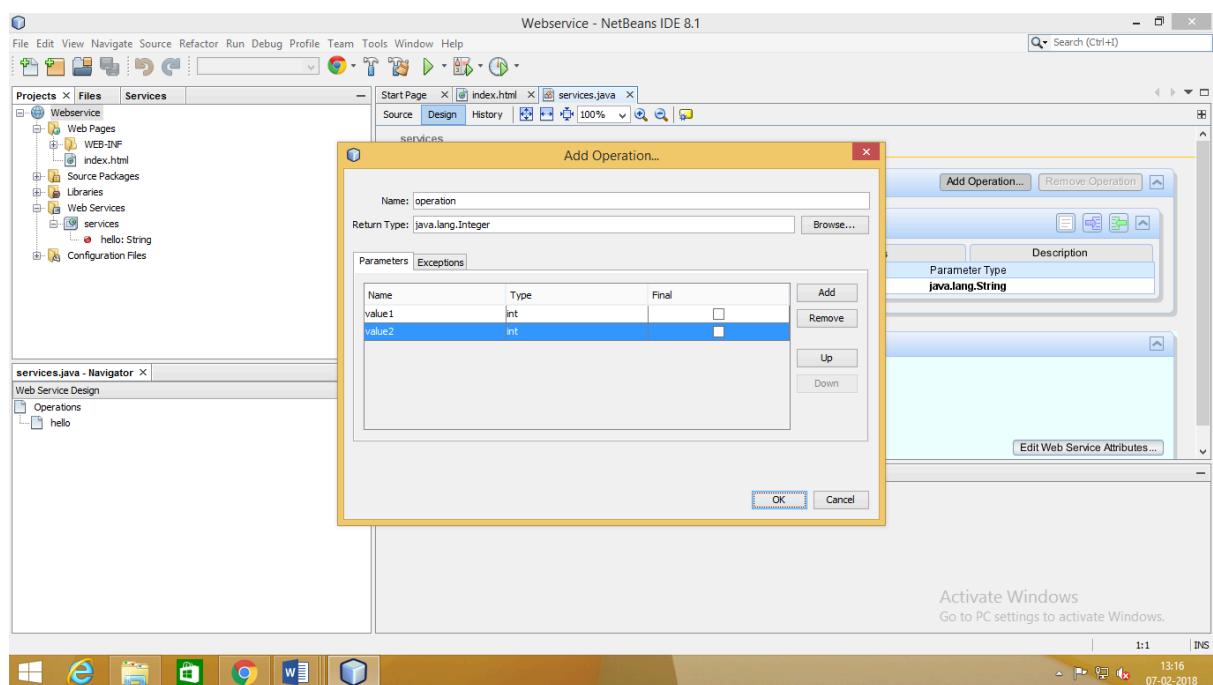
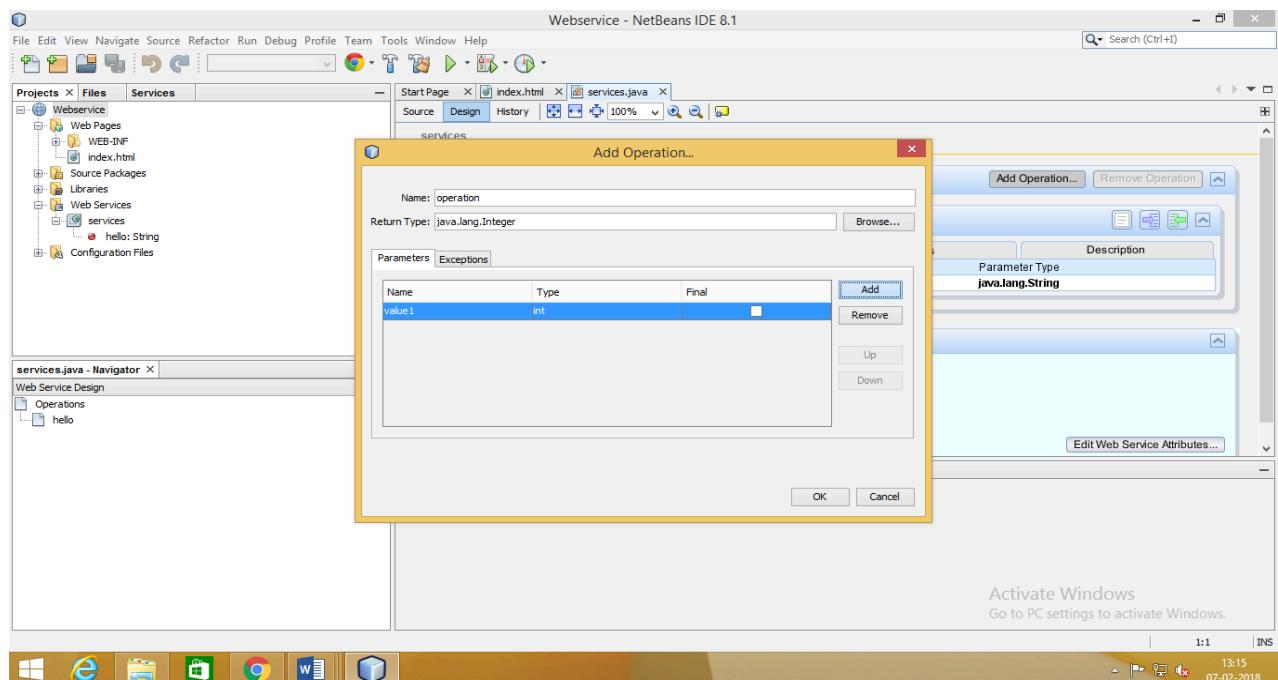


10. Add the parameters



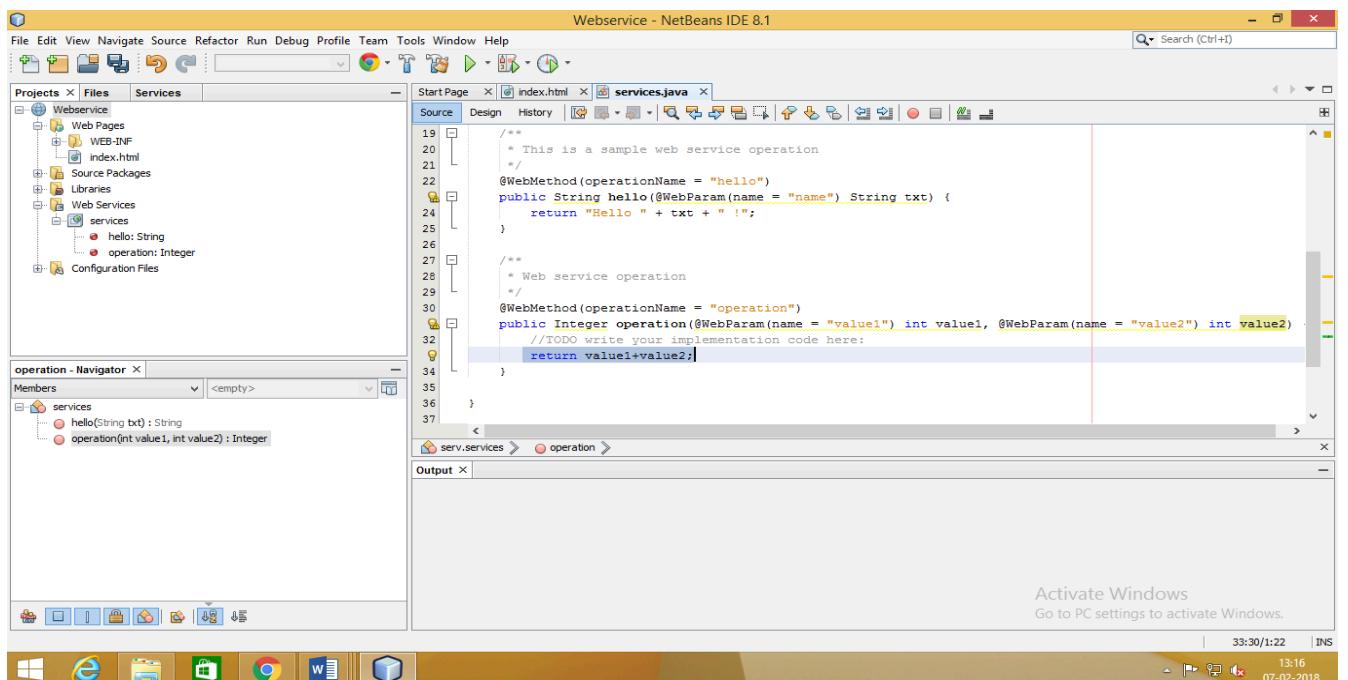


Again add one parameter.



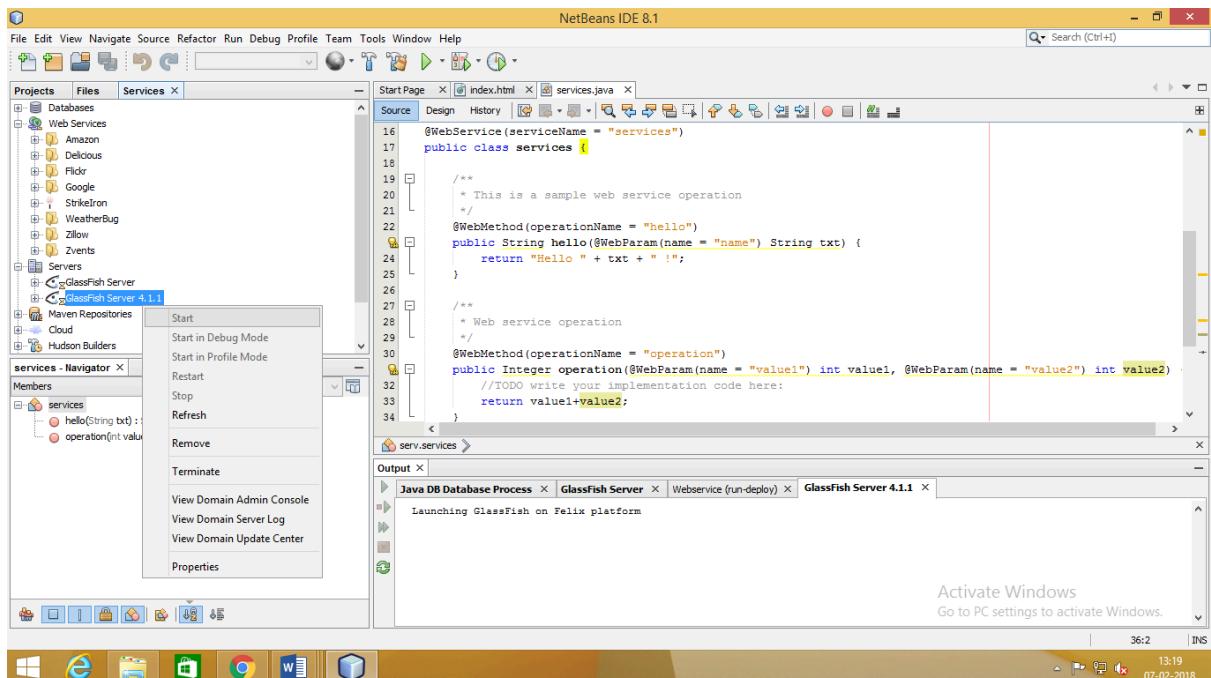
In source part,

Change the null value to

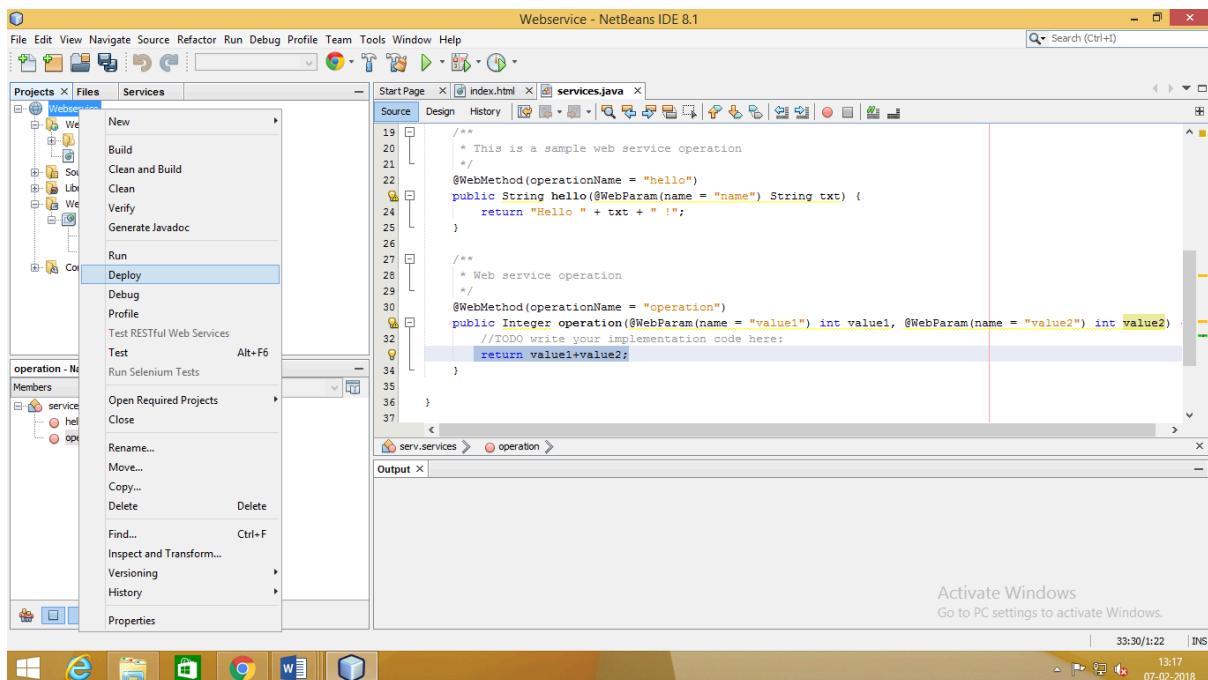


11.

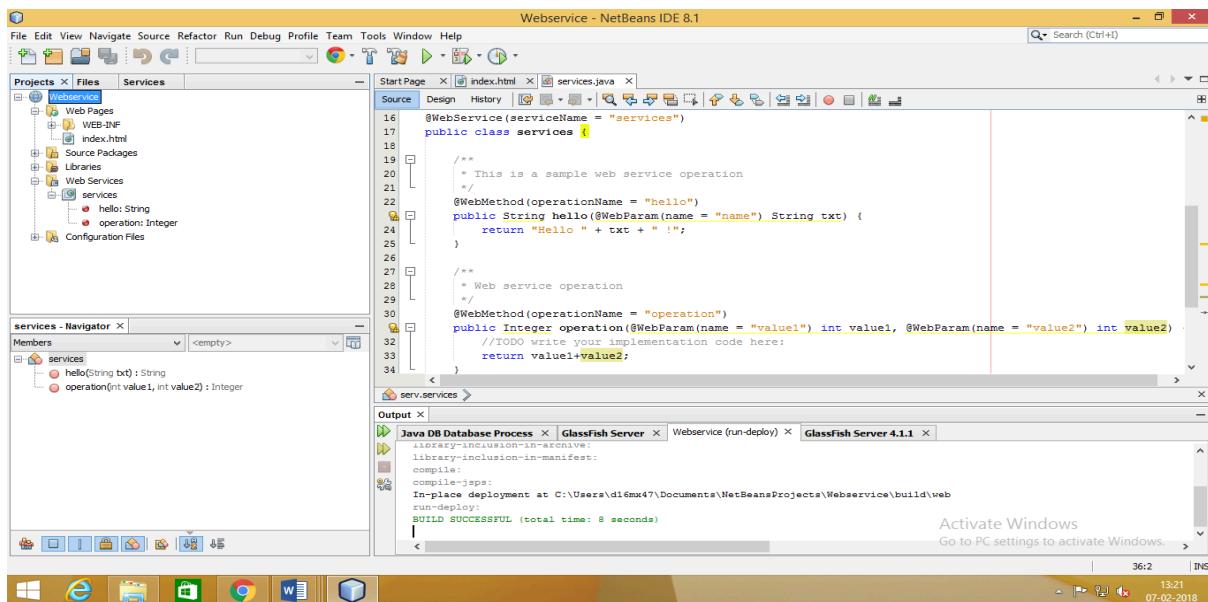
In services, Start the Glassfish Services



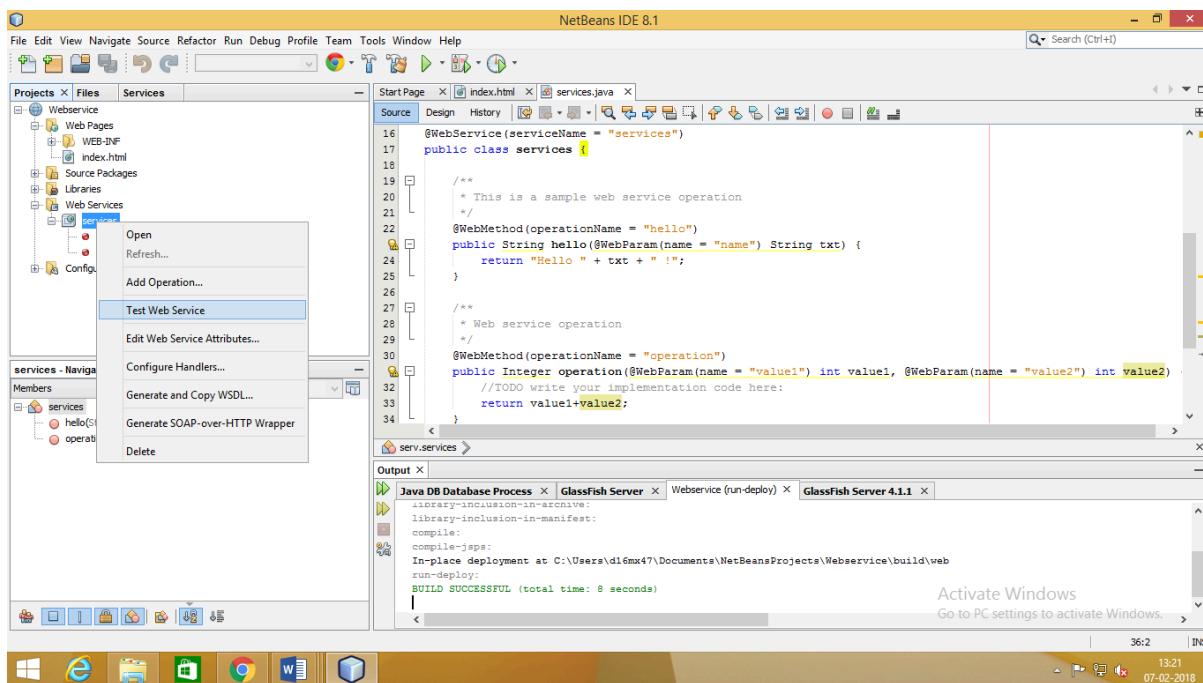
Deploy the Webservice.



Successfully Build



Test the web service



Output will be:

services 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.Integer serv.Services.operation(int,int)
operation [ ]
```

```
public abstract java.lang.String serv.Services.hello(java.lang.String)
hello [ ]
```

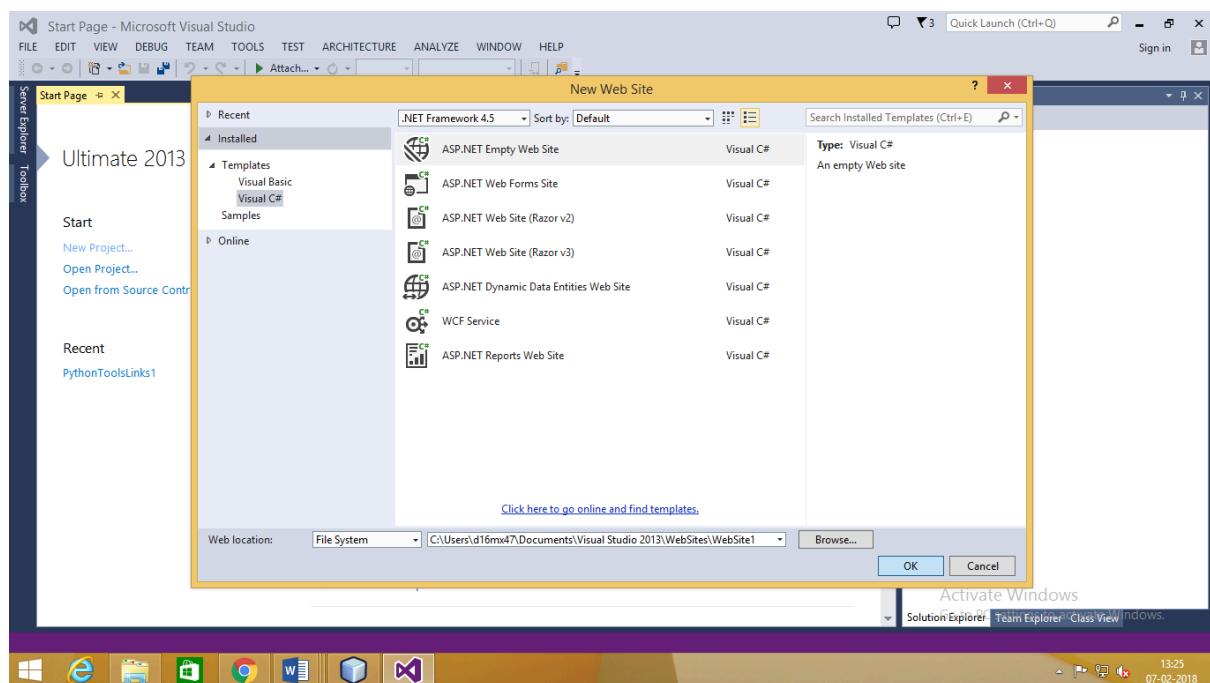
Activate Windows
Go to PC settings to activate Windows.

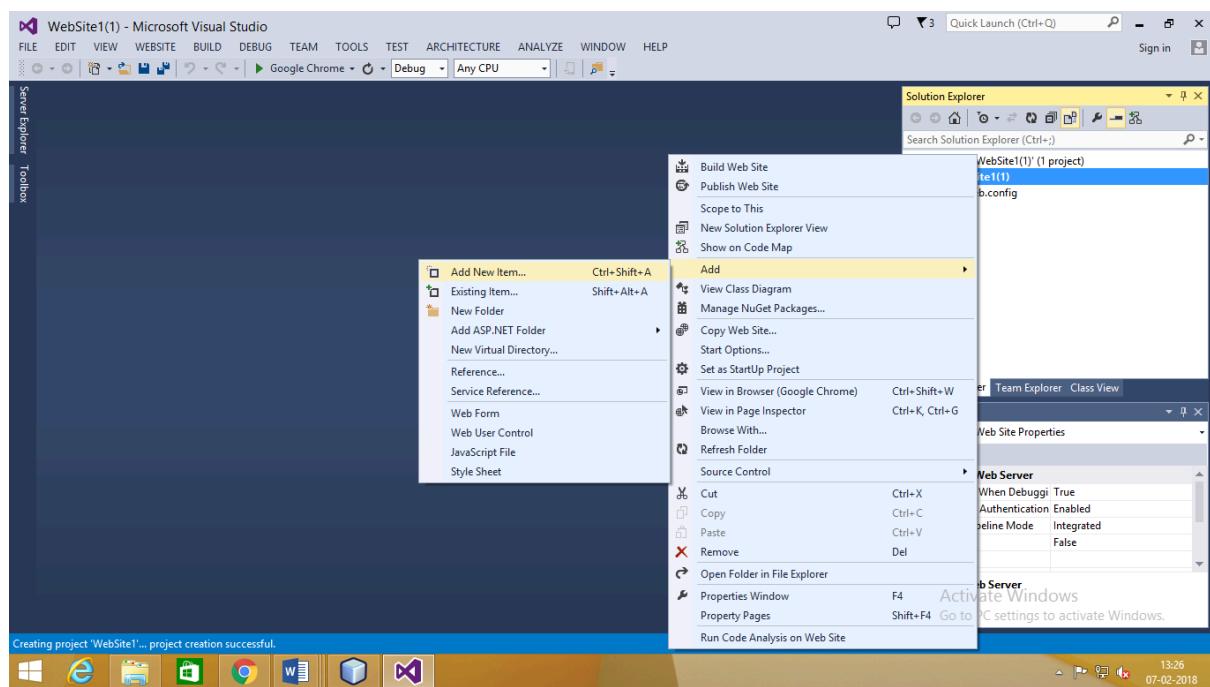
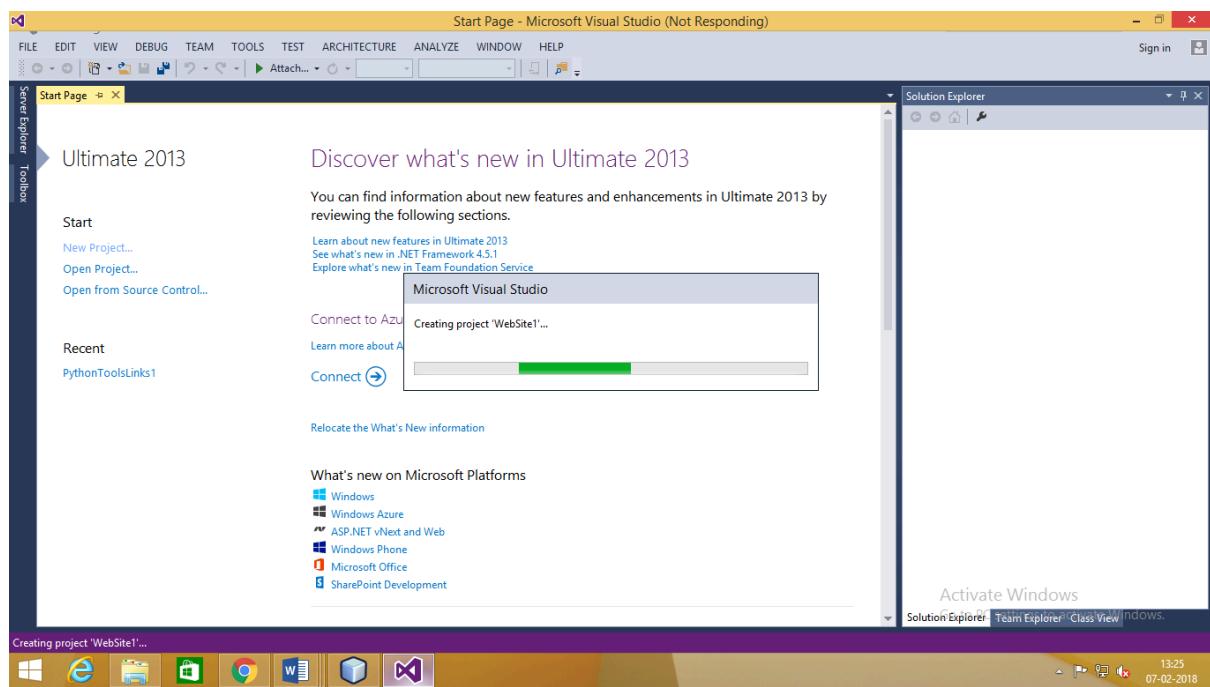
13:22 07-02-2018

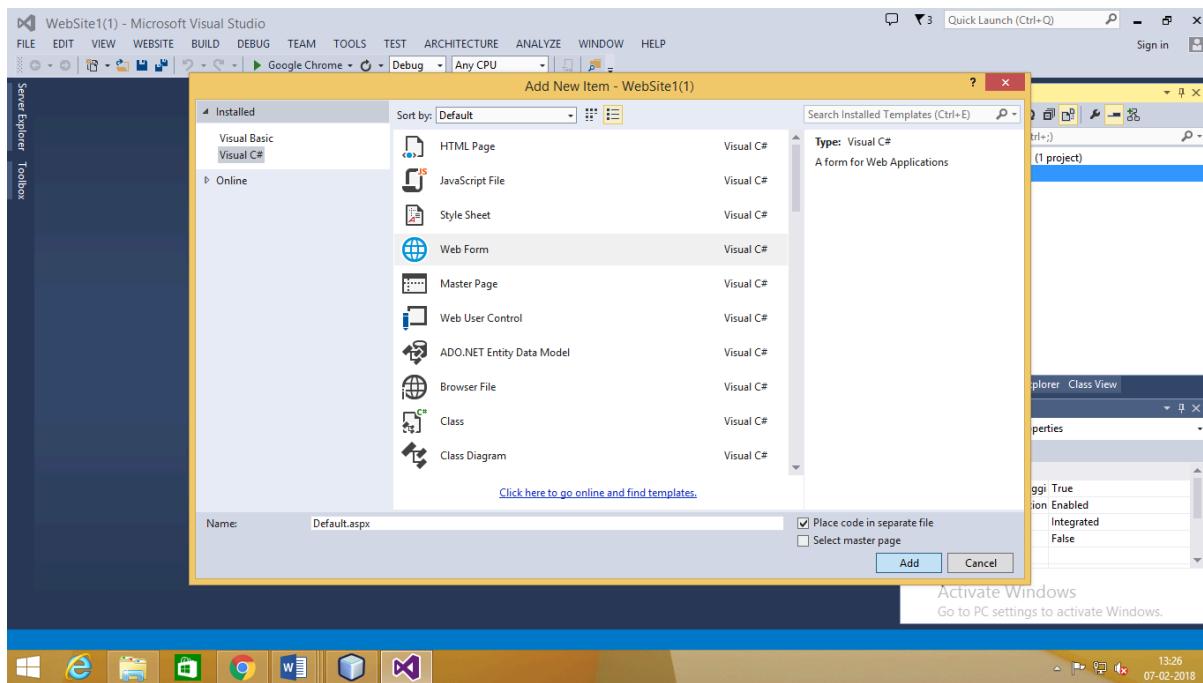
CREATE A .NET CLIENT

1.open visual studio

File->New project->new website

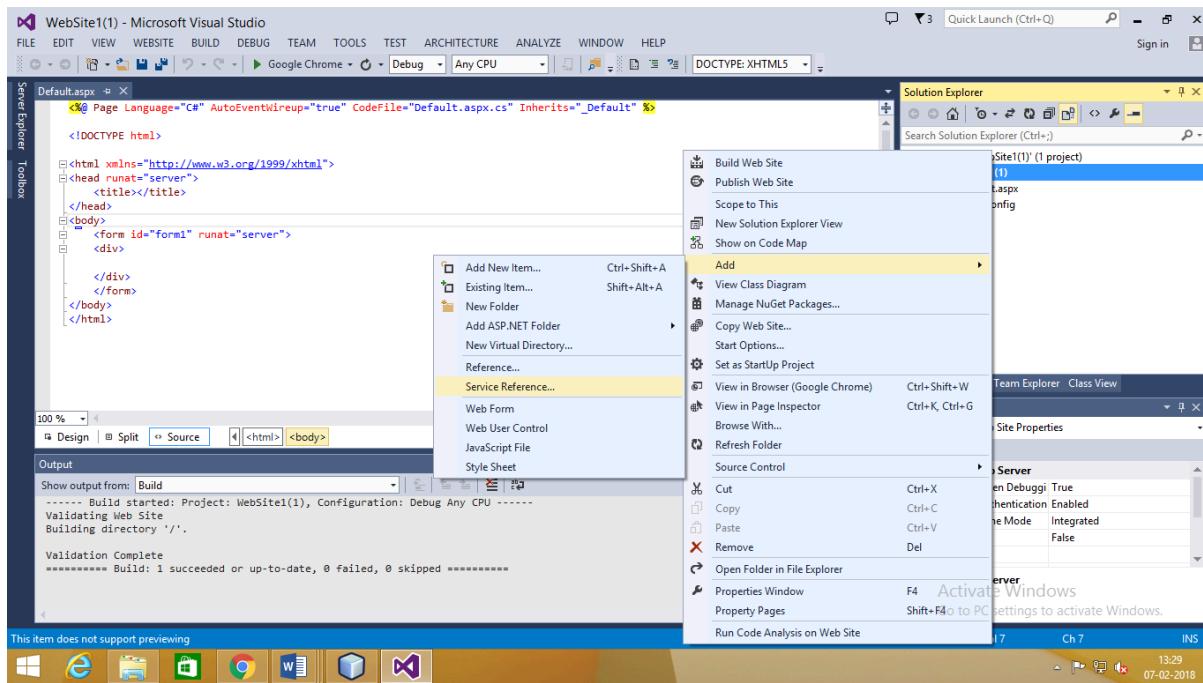




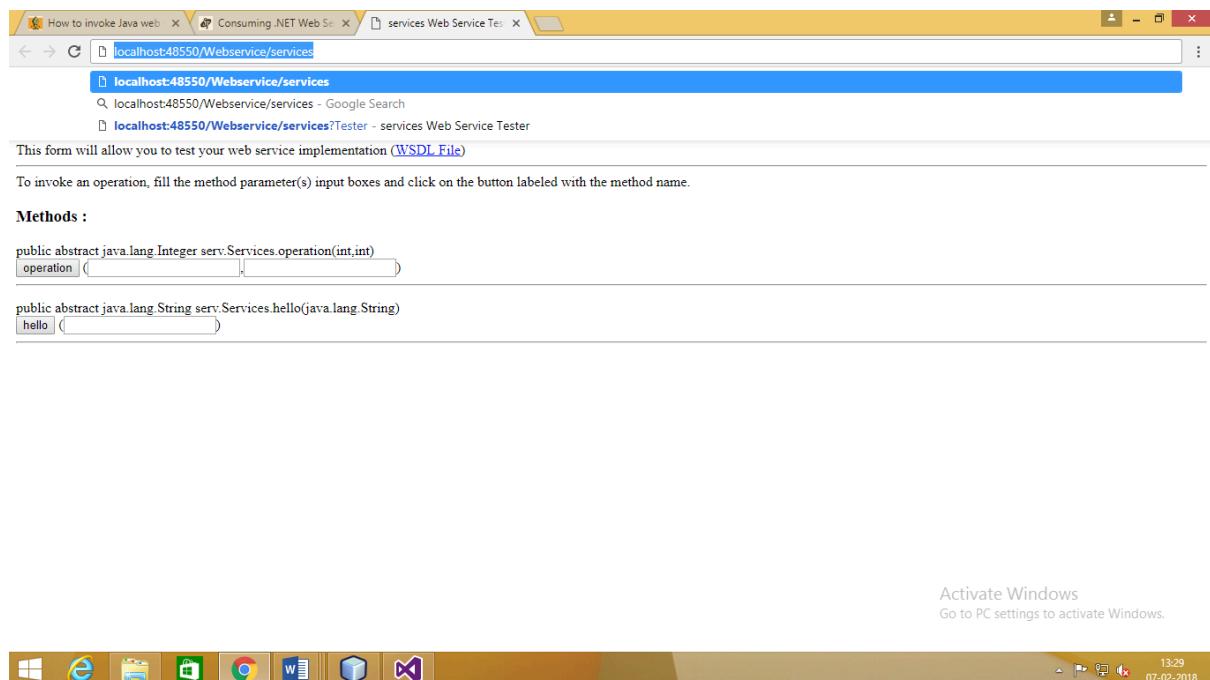


Right click The website1(1)

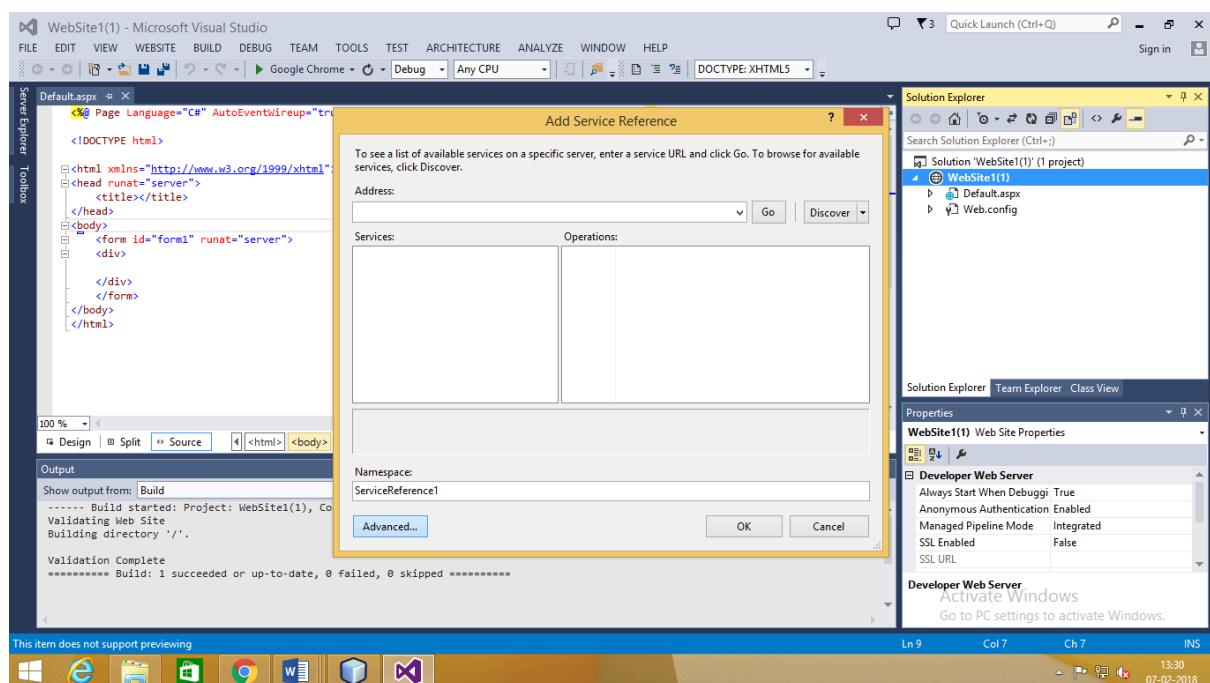
Add->service Rerence



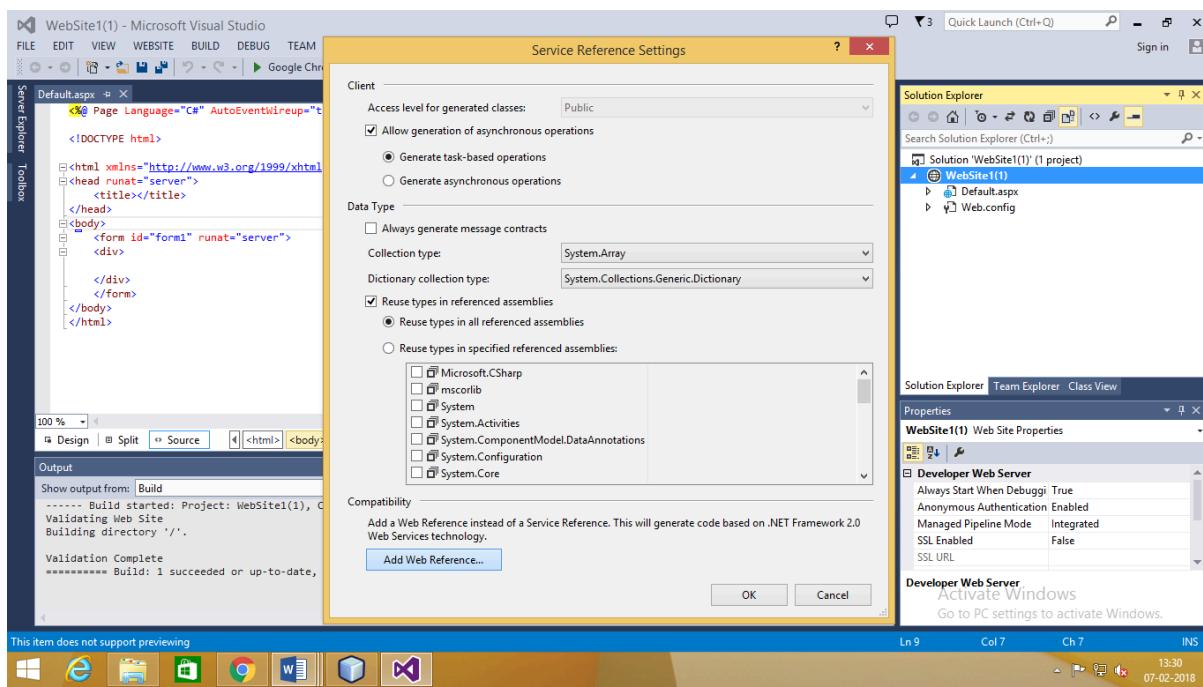
Copy the url where you ran the webservice.



click advanced

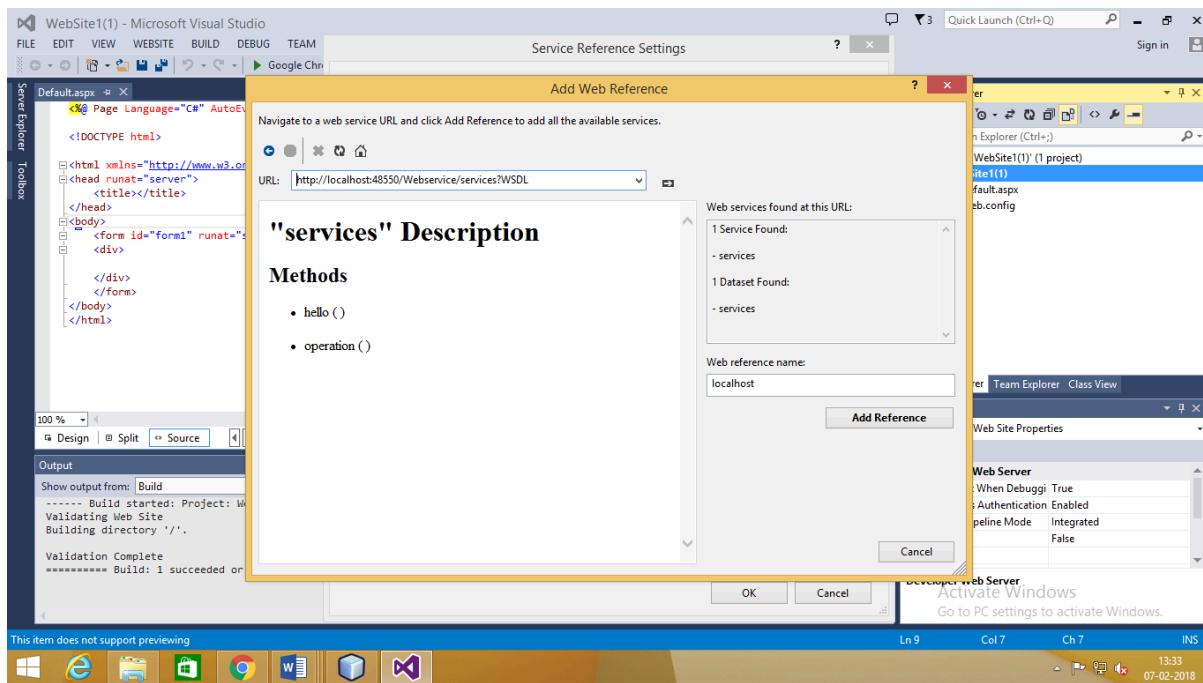


Click Add Web reference



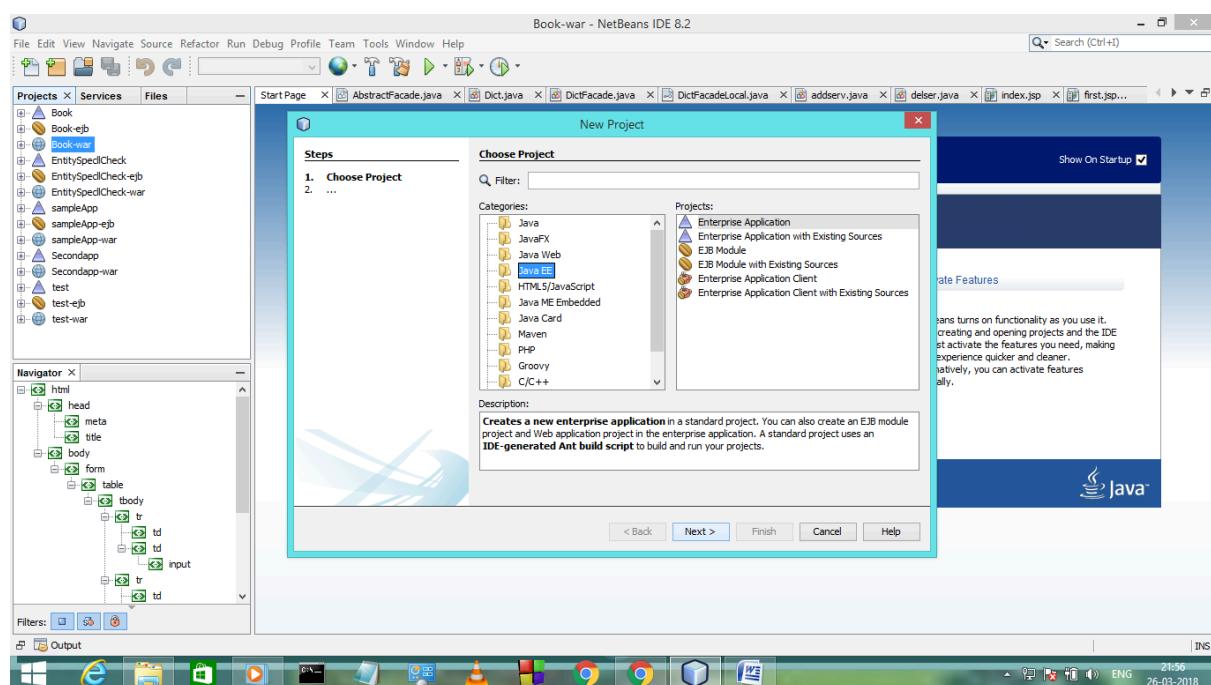
Paste the URL here with ?WSDL:

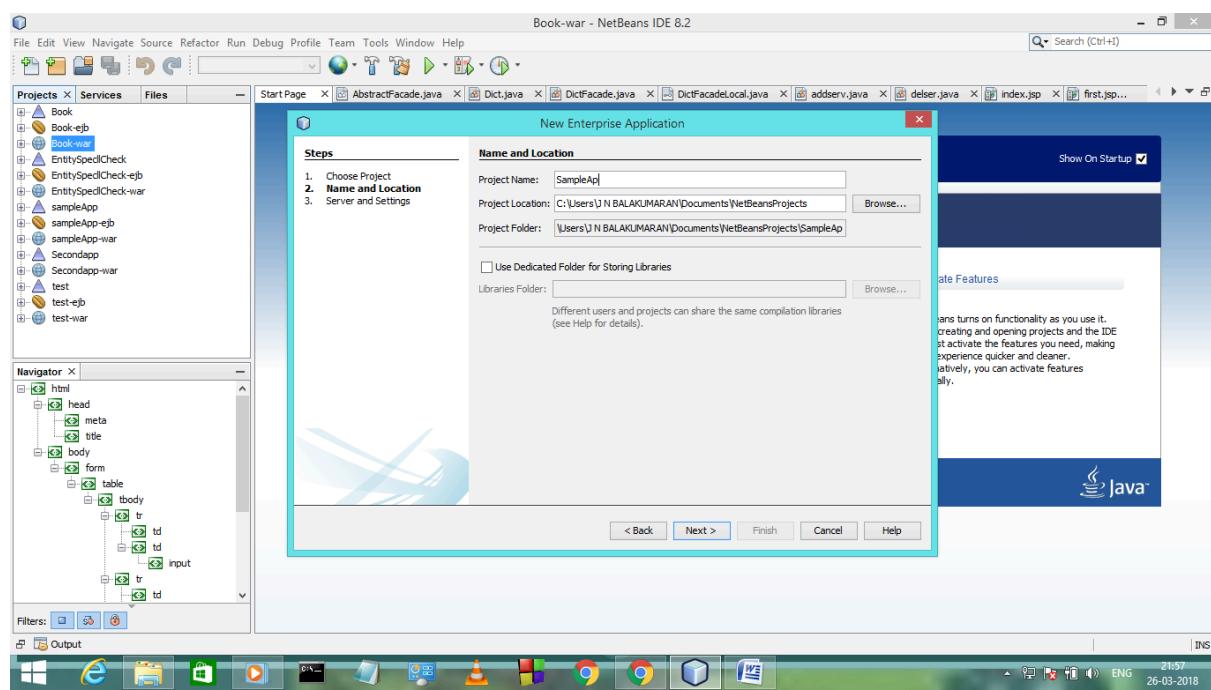
And click Add reference



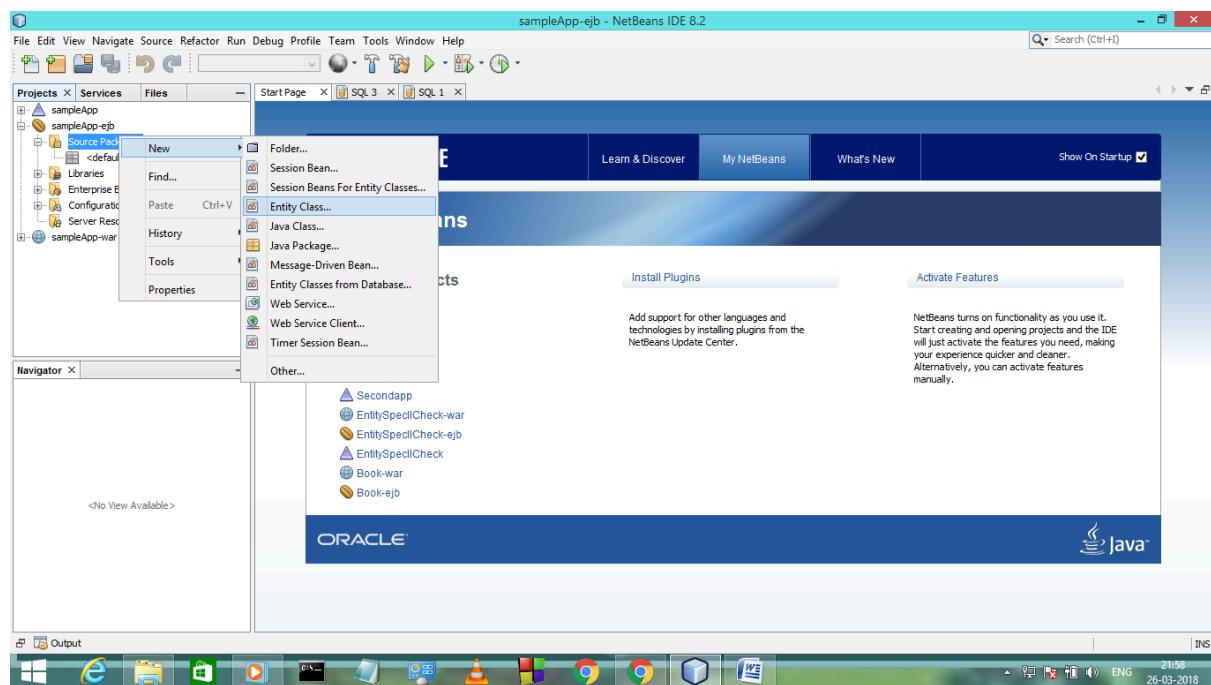
Entity Bean - Development and deployment:

1.File -> New project-> javaEE -> Enterprise application -> project name

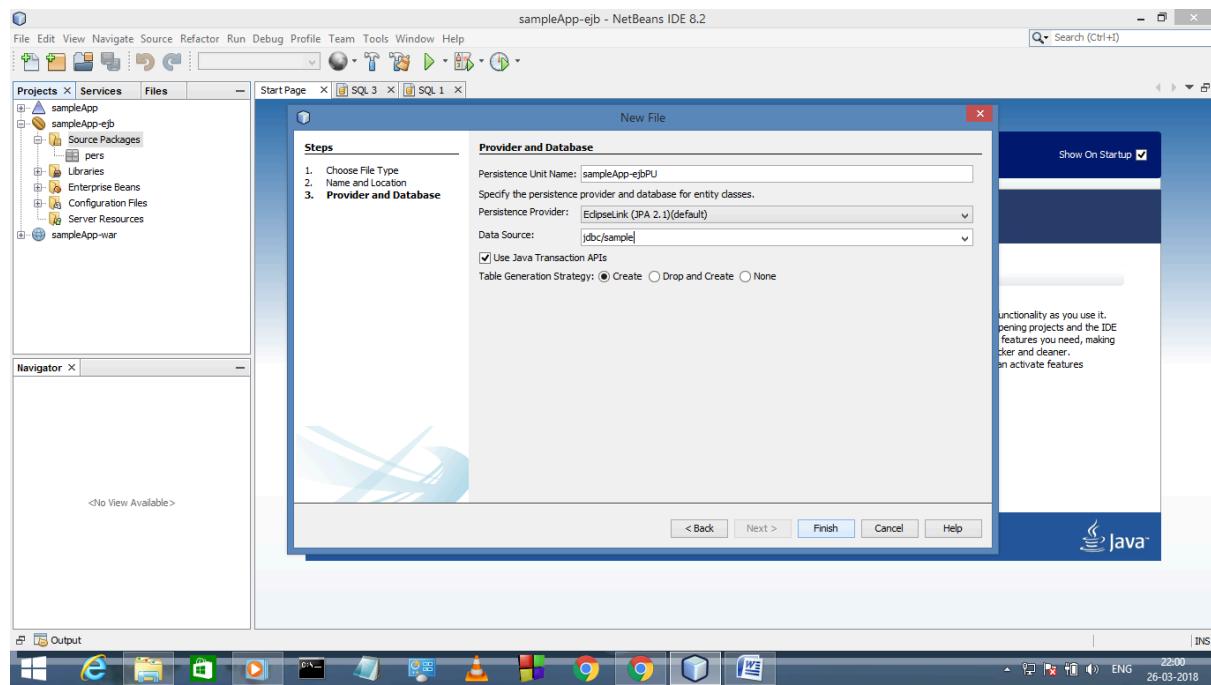
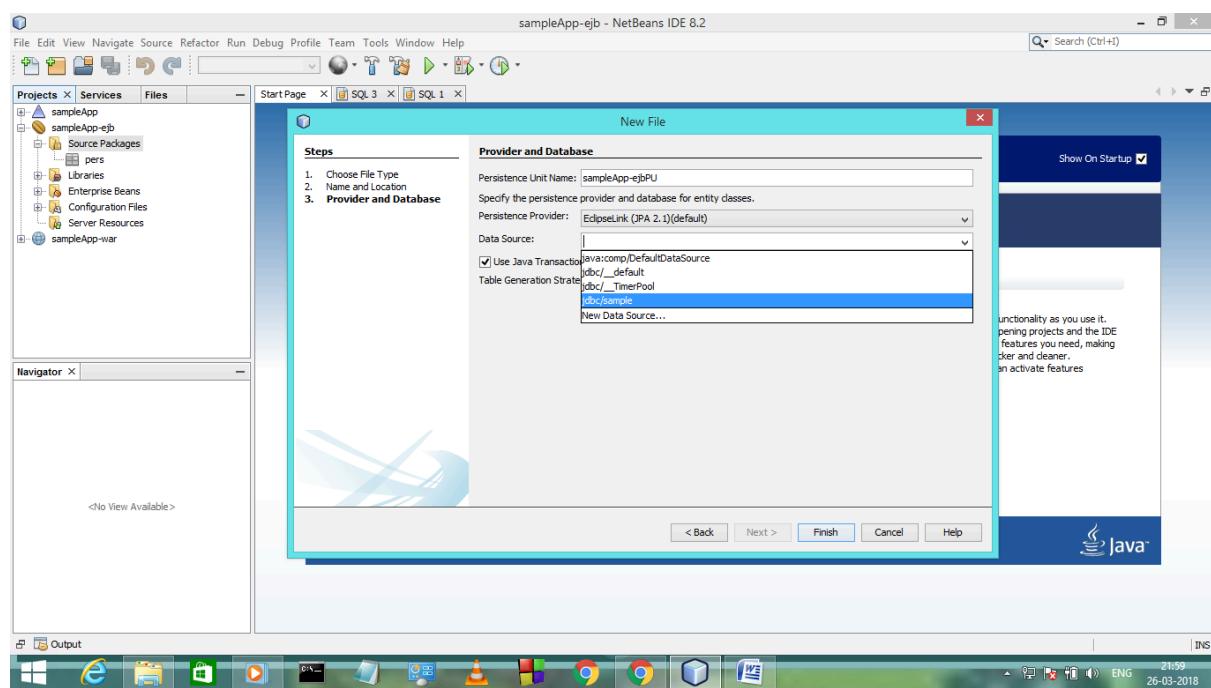




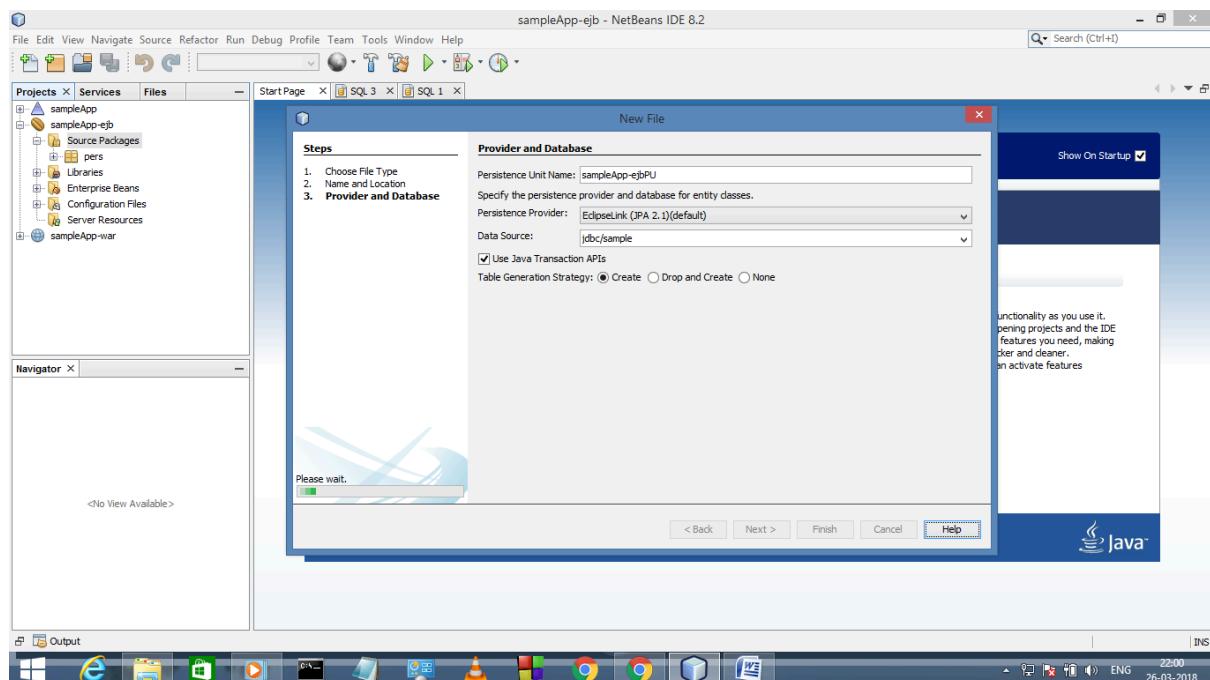
2. Select Entity class from EJB name the entity bean as Consumer(Table name).



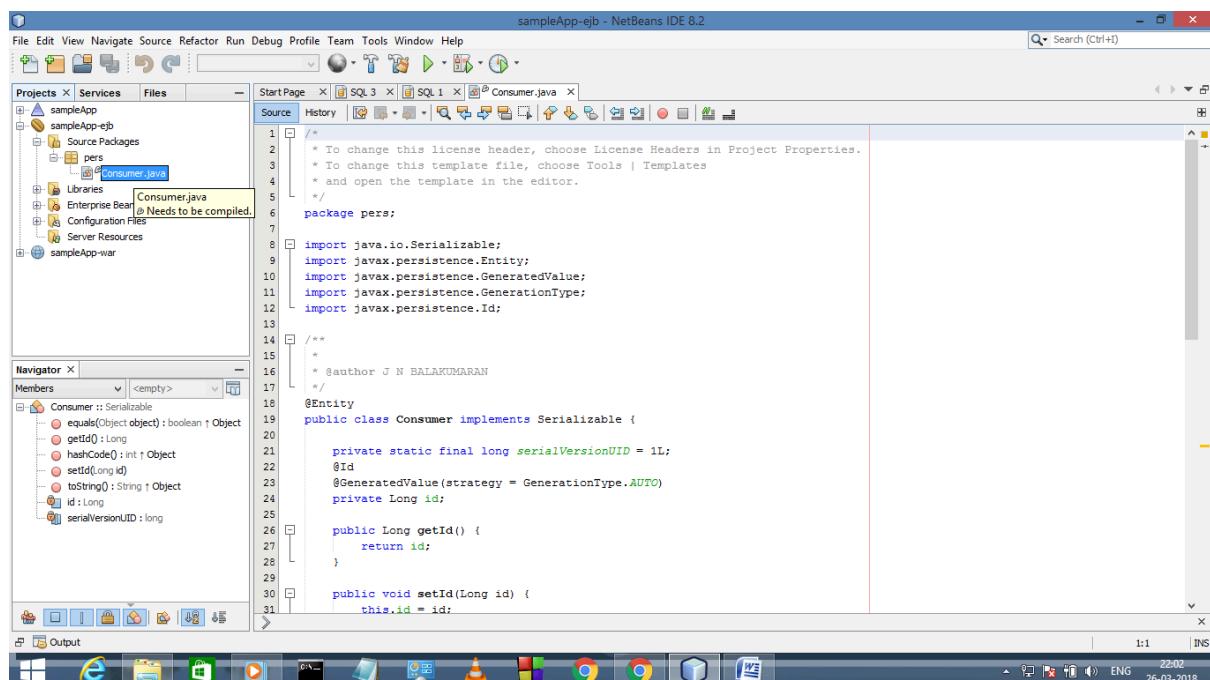
3. Select the data source from existing databases



Click finish.

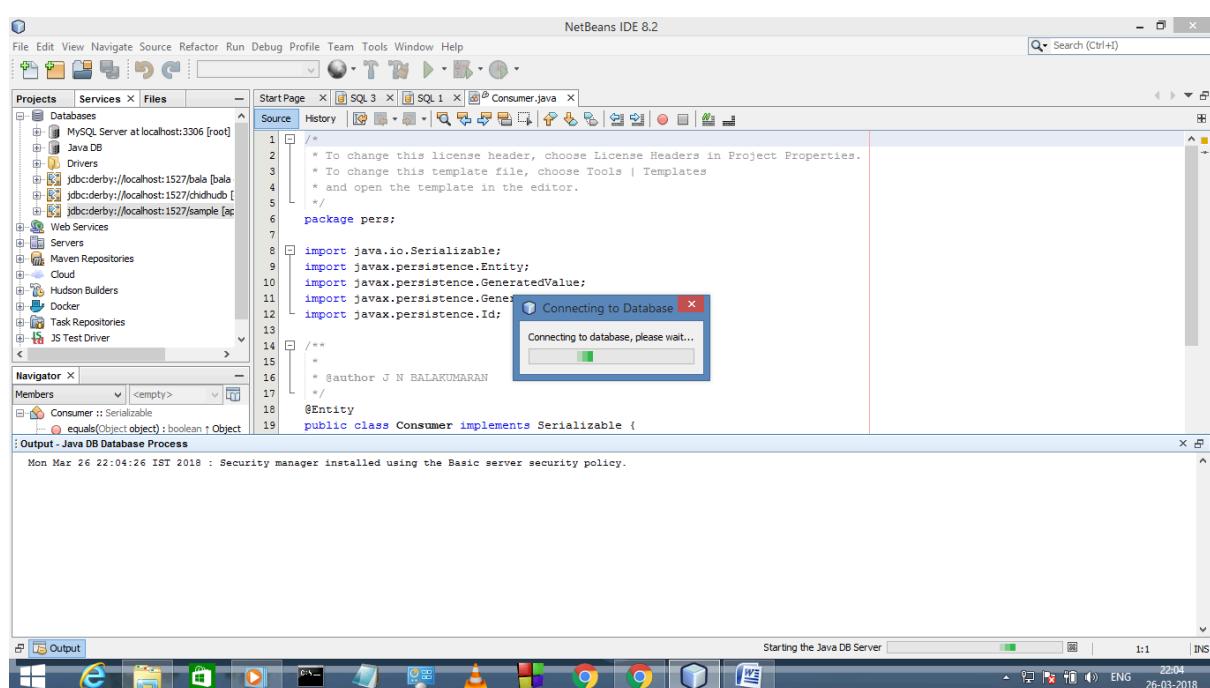
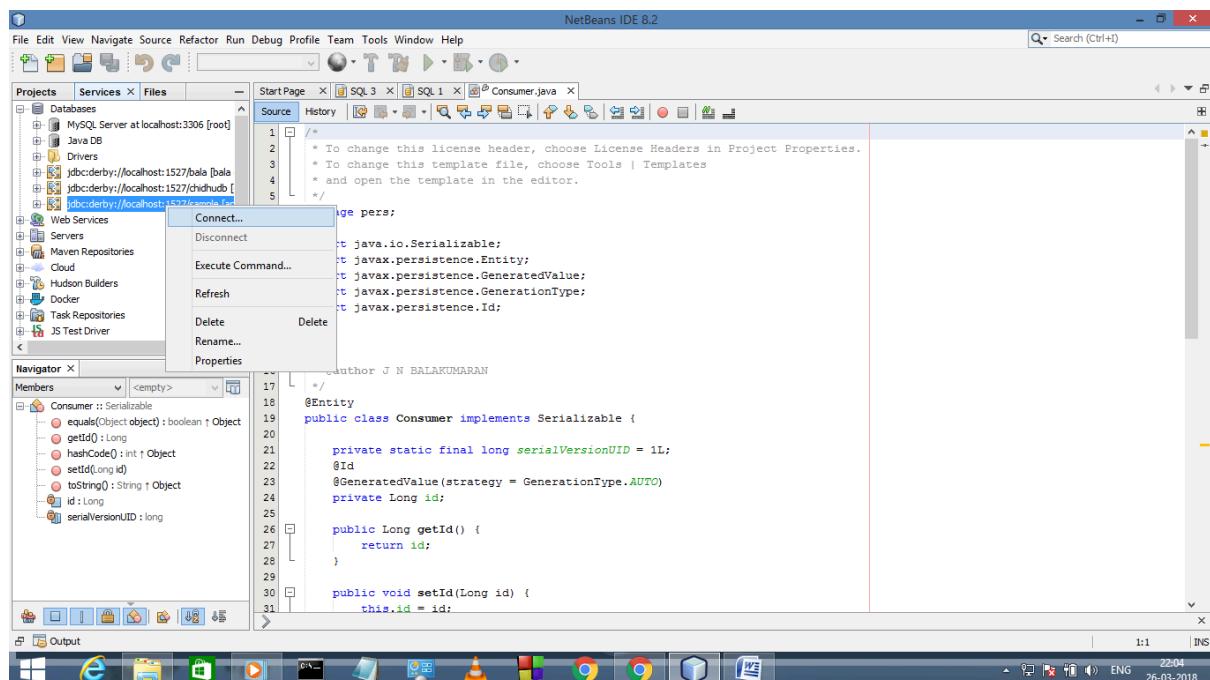


Consumer.java will be created in the source package folder.

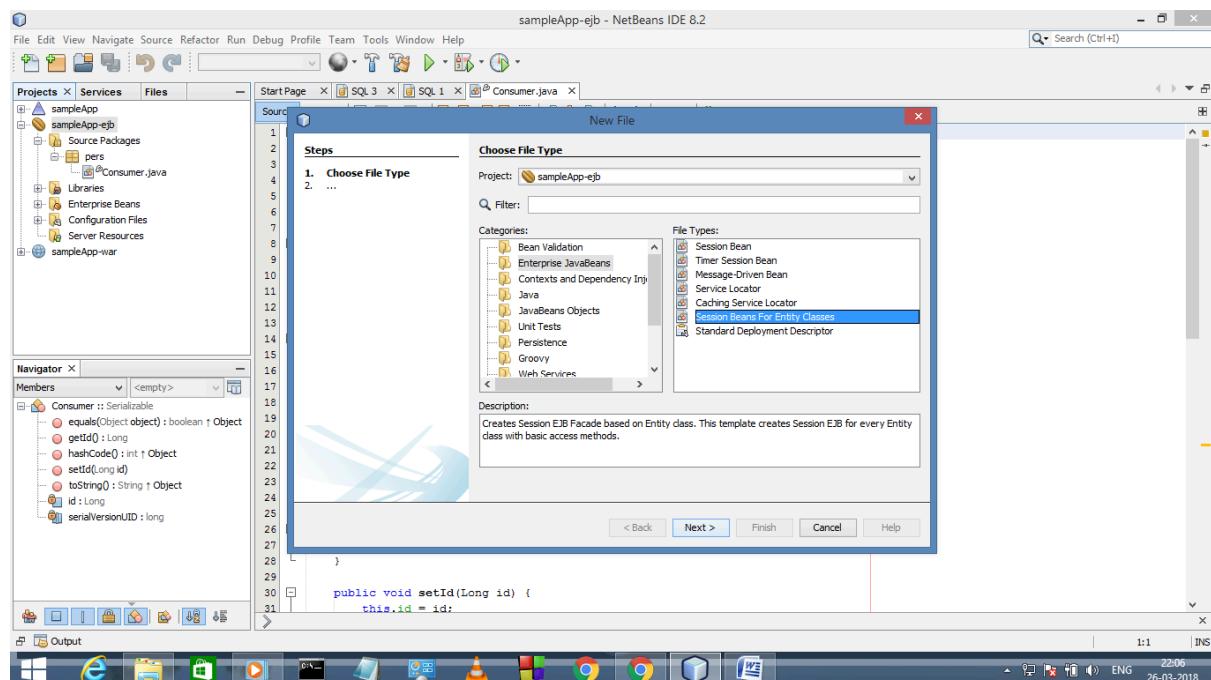


Connect to Database:

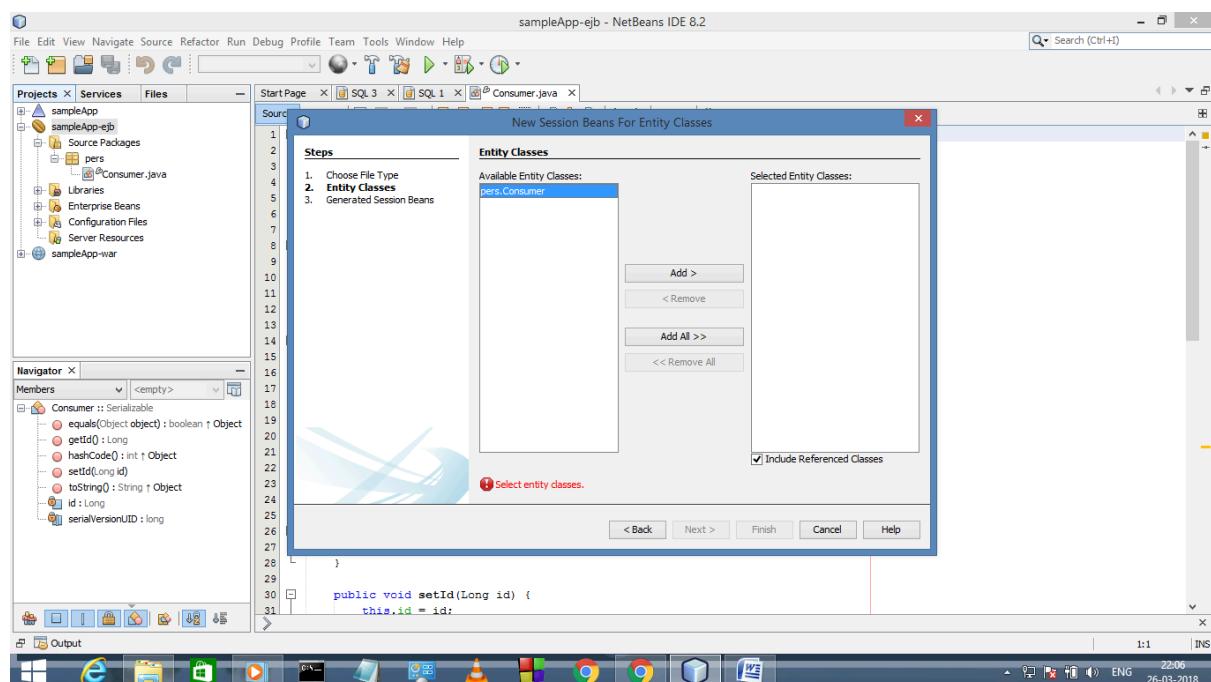
1.Goto to Services -> connect -> jdbc/sample

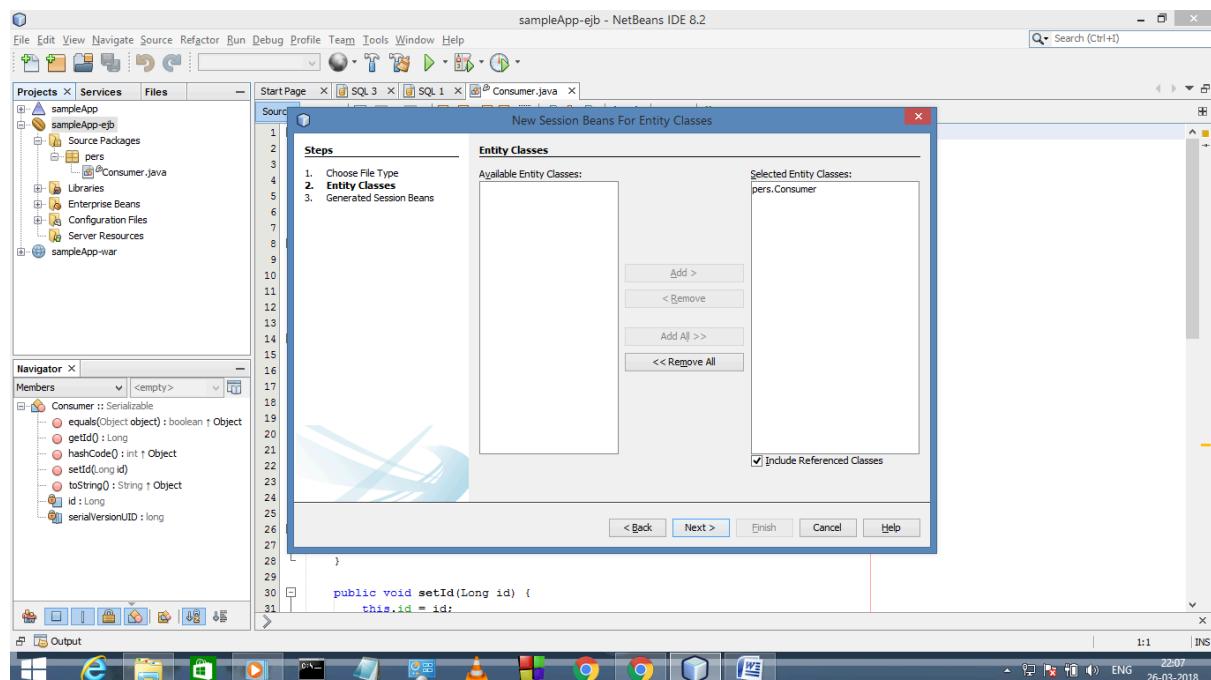


Projects-> Right click on EJB module ->new-> other -> Enterprise Java Bean -> Session Bean for Entity classes

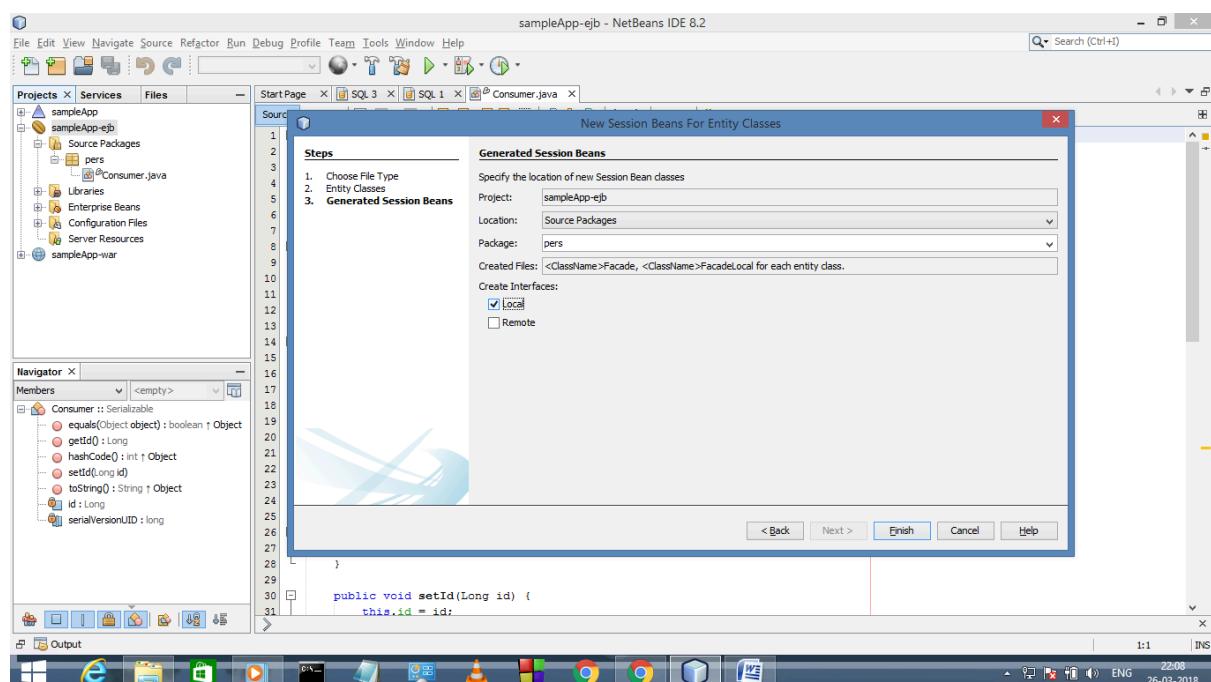


Select the entity class and click add





Click next-> select local -> click finish



```

/*
 * 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 pers;

import java.io.Serializable;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.PersistenceId;

```

Add the required Attributes in the entity class

```

/*
 * 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 pers;

import java.io.Serializable;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.PersistenceId;

```

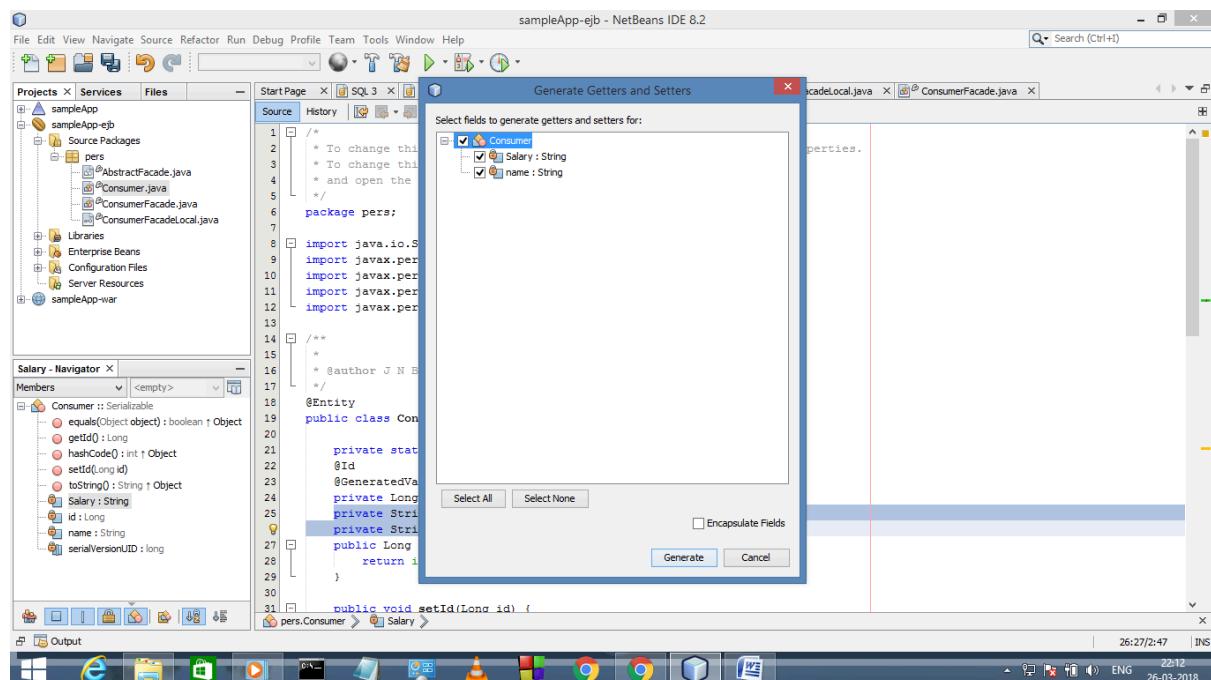
The code editor shows the addition of a new attribute:

```

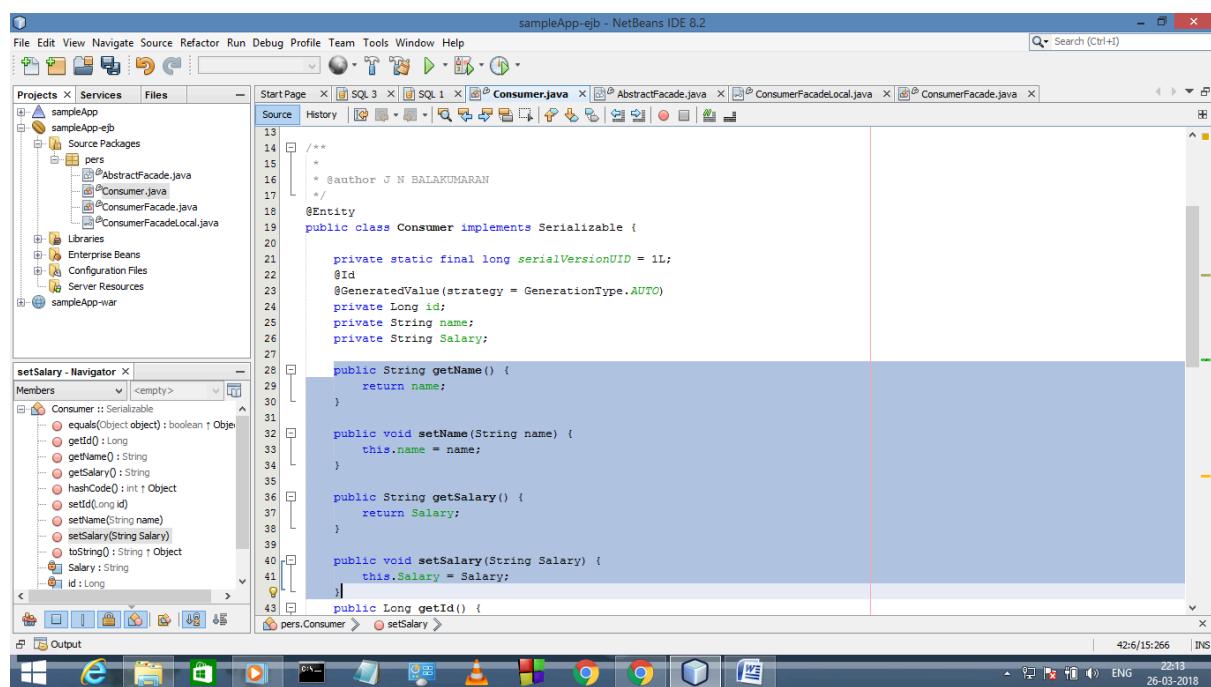
private String Salary;

```

Add the getter and setter method by using ALT + INSERT(or by right clicking in java code)



Select required attributes -> Click Generate



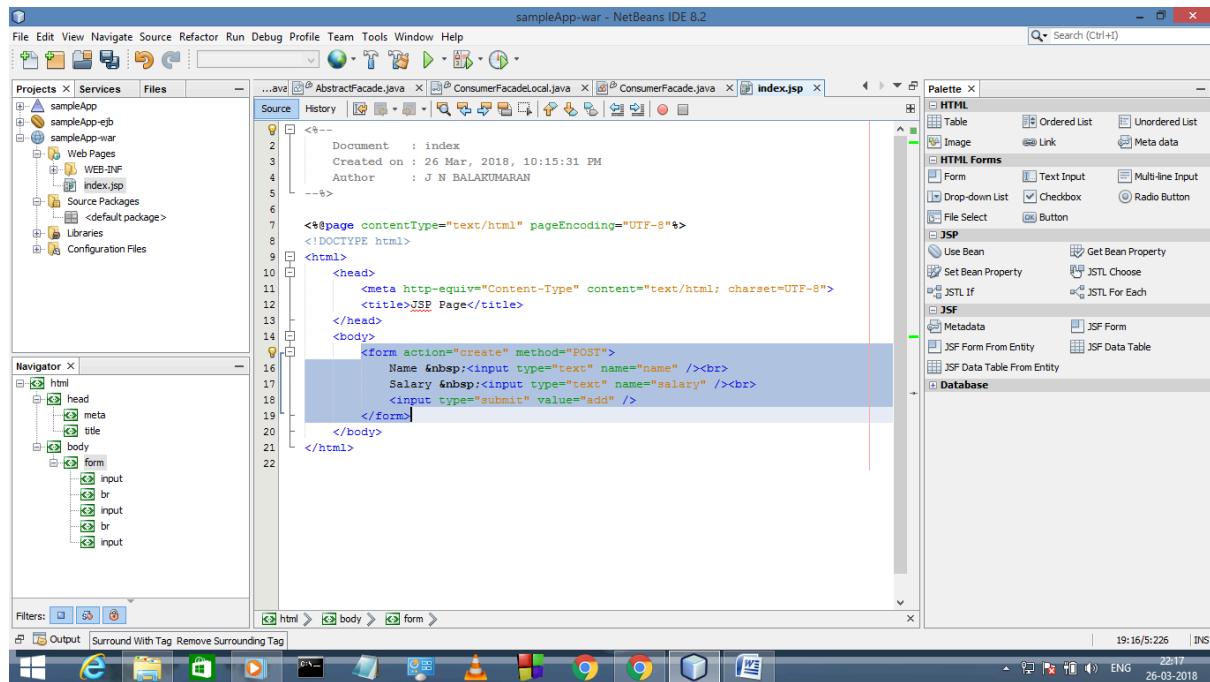
In war module,

Right click project -> new -> jsp (index.jsp)

Create a servlet named Create under a package(default package or any other named package).

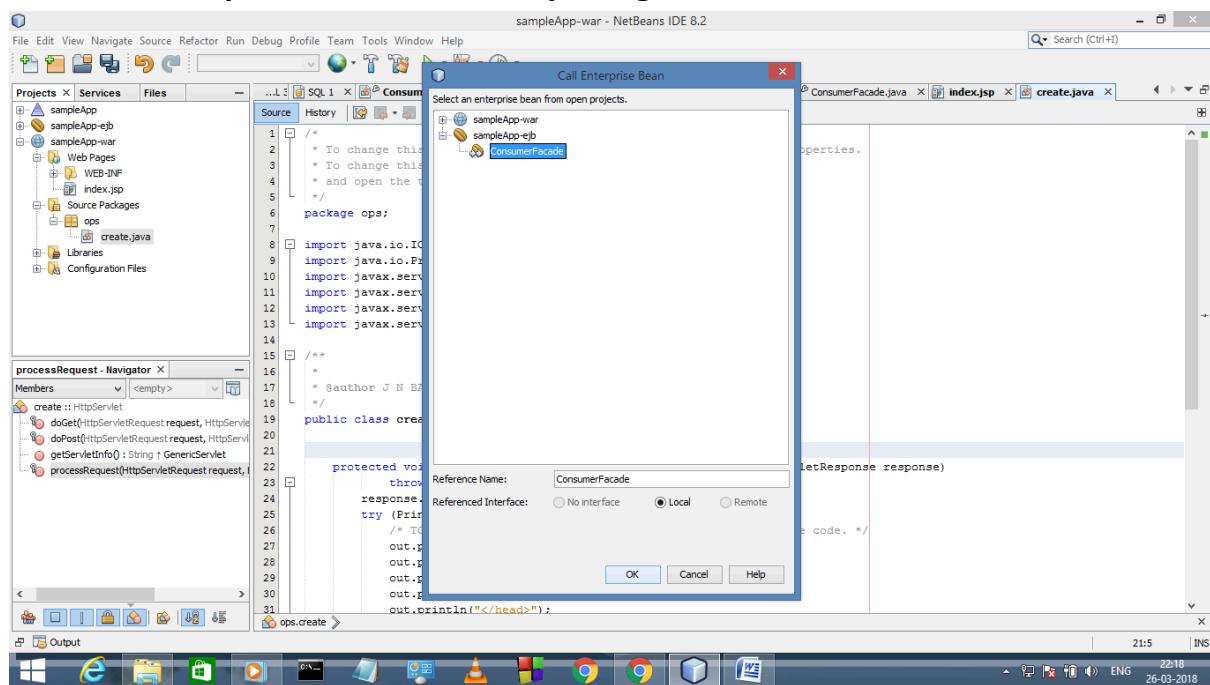
Right click project -> new -> servlet (create.java)

In JSP Web page,



In Servlet:

Add Call enterprise bean method by using ALT + INSERT



Click ok

```

/*
 * 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 ops;

import java.io.IOException;
import java.io.PrintWriter;
import javax.ejb.EJB;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import pers.ConsumerFacadeLocal;

```

```

/**
 * @author J N BALAKUMARAN
 */
public class create extends HttpServlet {

    @EJB
    private ConsumerFacadeLocal consumerFacade;

    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet create</title>");
            out.println("</head>");
            out.println("<body>");
            //out.println("<h1>Servlet create at " + request.getContextPath() + "</h1>");
            Consumer obj=new Consumer(); //ENTITY CLASS INSTANTIATION
            obj.setName(request.getParameter("name")); //SET NAME CALL THE METHOD
            obj.setSalary(request.getParameter("salary")); //SET SALARY
            consumerFacade.create(obj); //BY USING EJB CALL CREATE METHOD
            out.println("</body>");
            out.println("</html>");
        }
    }
}

```

Add the following code in servlet

Consumer obj=new Consumer();//ENTITY CLASS INSTANTIATION

obj.setName(request.getParameter("name")); //SET NAME CALL THE METHOD

obj.setSalary(request.getParameter("salary")); //SET SALARY

consumerFacade.create(obj); //BY USING EJB (DI) CALL CREATE METHOD

```

/*
 * 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 ops;

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import java.io.PrintWriter;
import javax.ejb.EJB;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import pers.ConsumerFacadeLocal;

```

```

/**
 * @author J N BALAKUMARAN
 */
public class create extends HttpServlet {

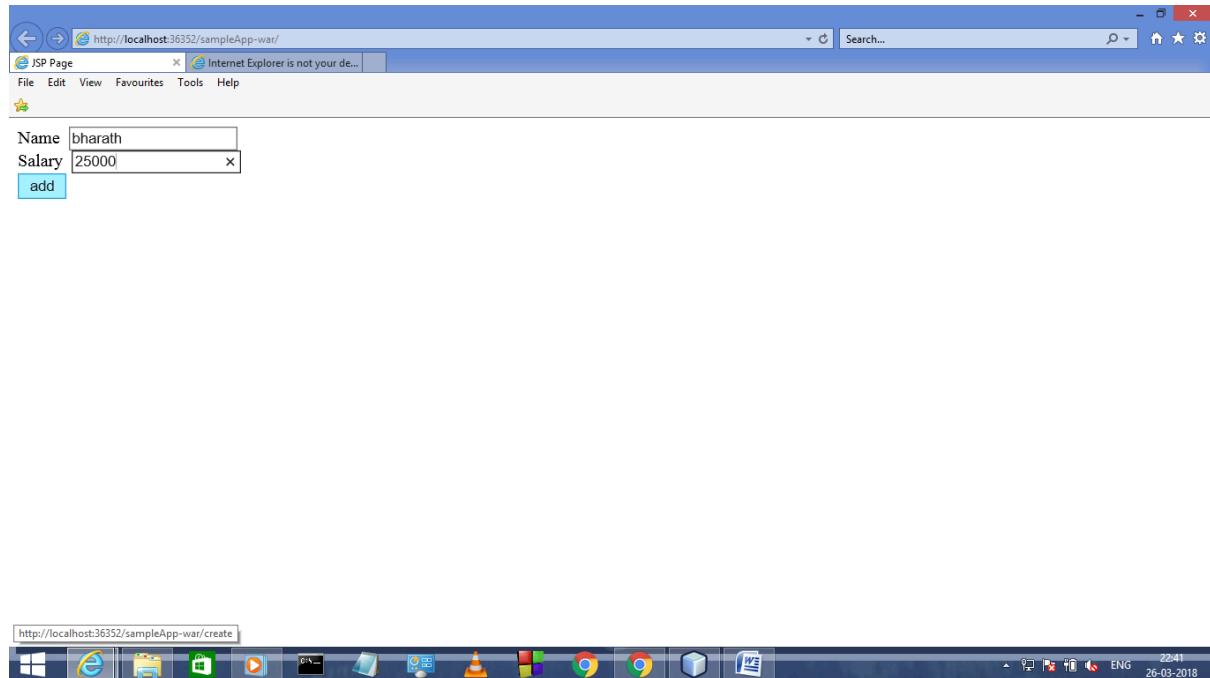
    @EJB
    private ConsumerFacadeLocal consumerFacade;

    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet create</title>");
            out.println("</head>");
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            consumerFacade.create(obj); //BY USING EJB CALL CREATE METHOD
            out.println("</body>");
            out.println("</html>");
        }
    }
}

```

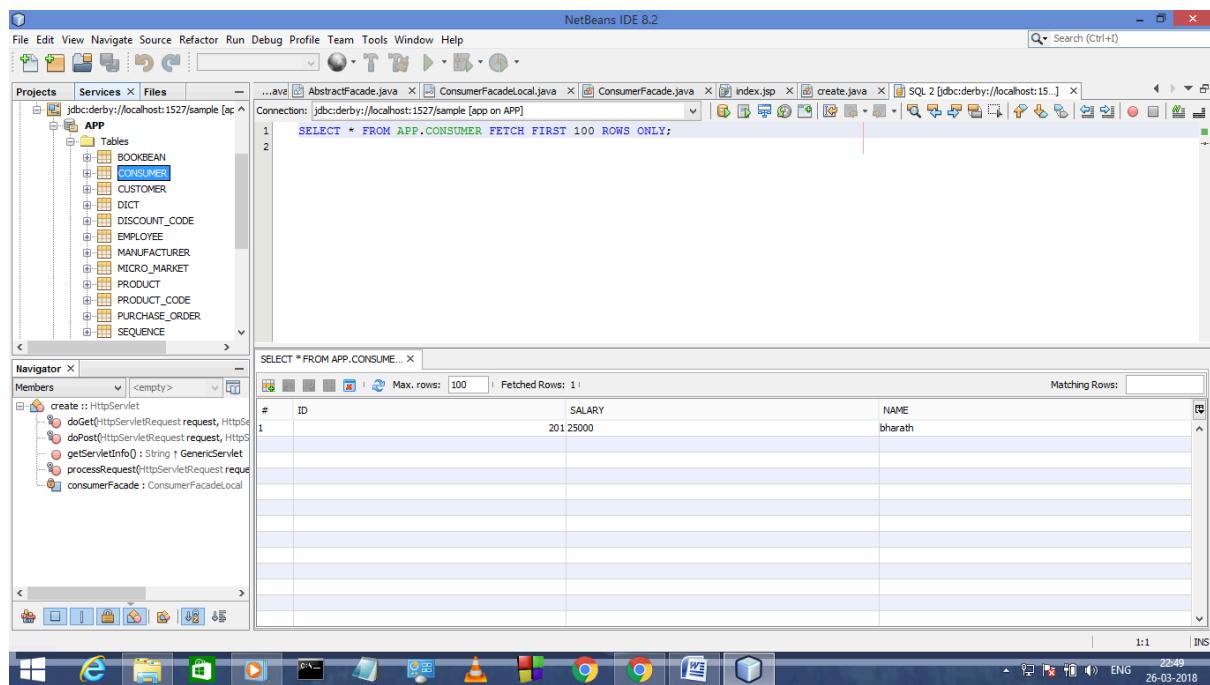
Clean and Build the project

And run the project



Check into databases

Consumer table will created under jdbc/sample and data will inserted into that table.

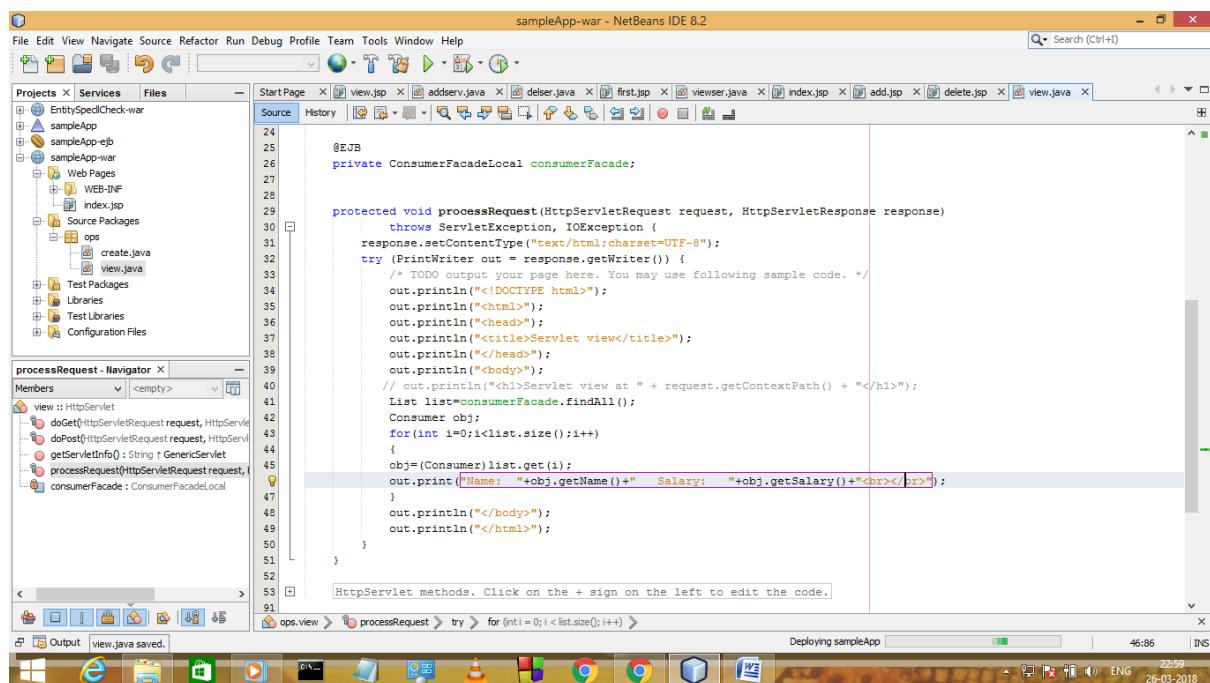


To view table data in webpage add a jsp page in webpage to call a servlet called view

Add these coding in servlet

```
List list=consumerFacade.findAll();
```

```
Consumer obj;  
  
for(int i=0;i<list.size();i++)  
  
{  
  
    obj=(Consumer)list.get(i);  
  
    out.print("Name: "+obj.getName()+"  Salary:  
"+obj.getSalary()+"<br></br>");  
  
}  
}
```



To Edit(update):

List list=consumerFacade.findAll();

Consumer obj;

```
for(int i=0;i<list.size();i++)  
{  
    obj=(Consumer)list.get(i);  
    if(obj.getName().equals(request.getParameter("name"))){  
        obj.setSalary(request.getParameter("salary"));  
        consumerFacade.edit(obj);  
    }  
}
```

To Delete:

```
List list=consumerFacade.findAll();  
Consumer obj;  
for(int i=0;i<list.size();i++)  
{  
    obj=(Consumer)list.get(i);  
    if(obj.getName().equals(request.getParameter("name"))){  
        consumerFacade.remove(obj);  
    }  
}
```
