

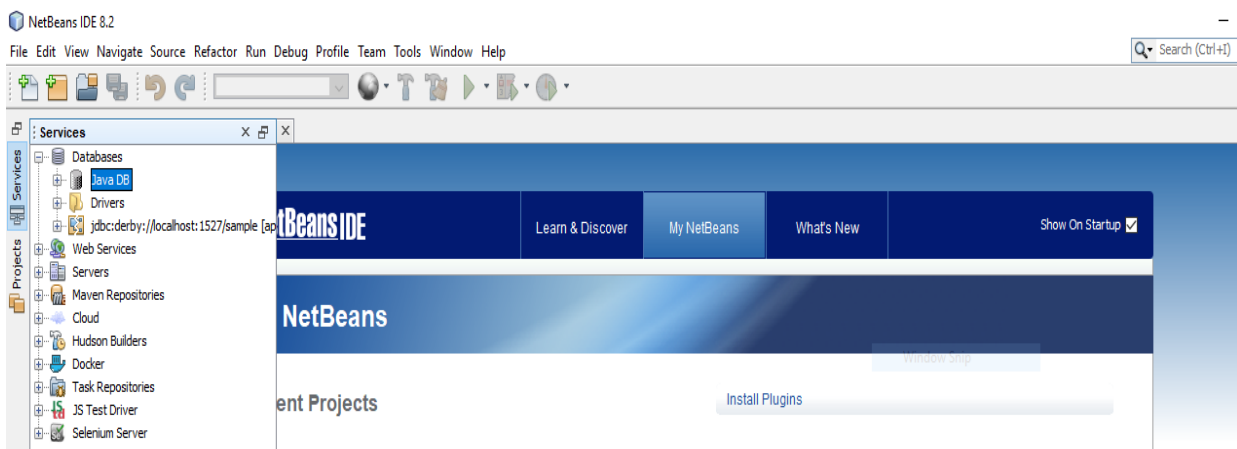
Date: 28/10/2020

Practical no 8

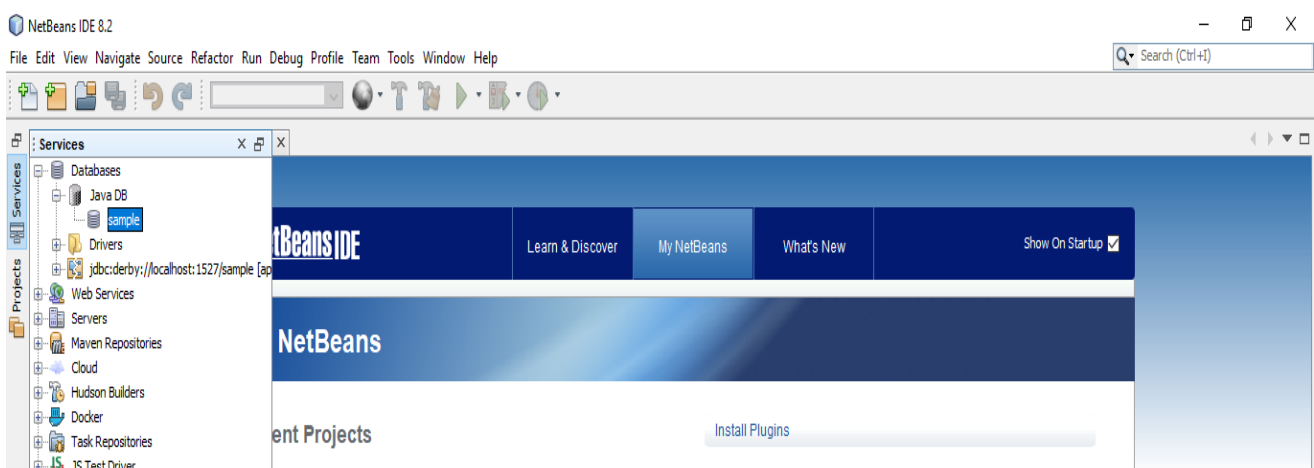
AIM: Define a RESTful web service that accepts the details to be stored in a database and performs CRUD operation.

Steps :-

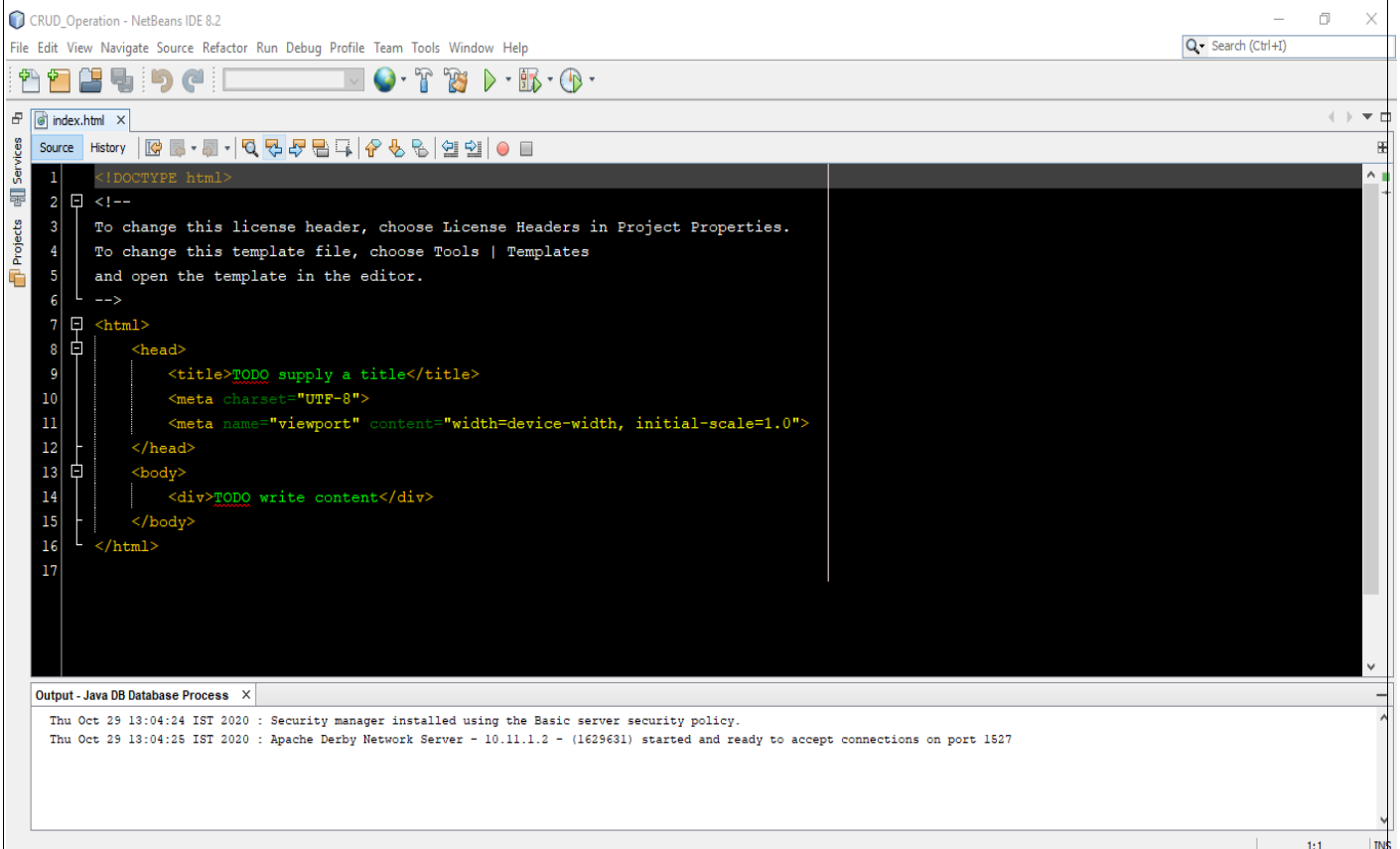
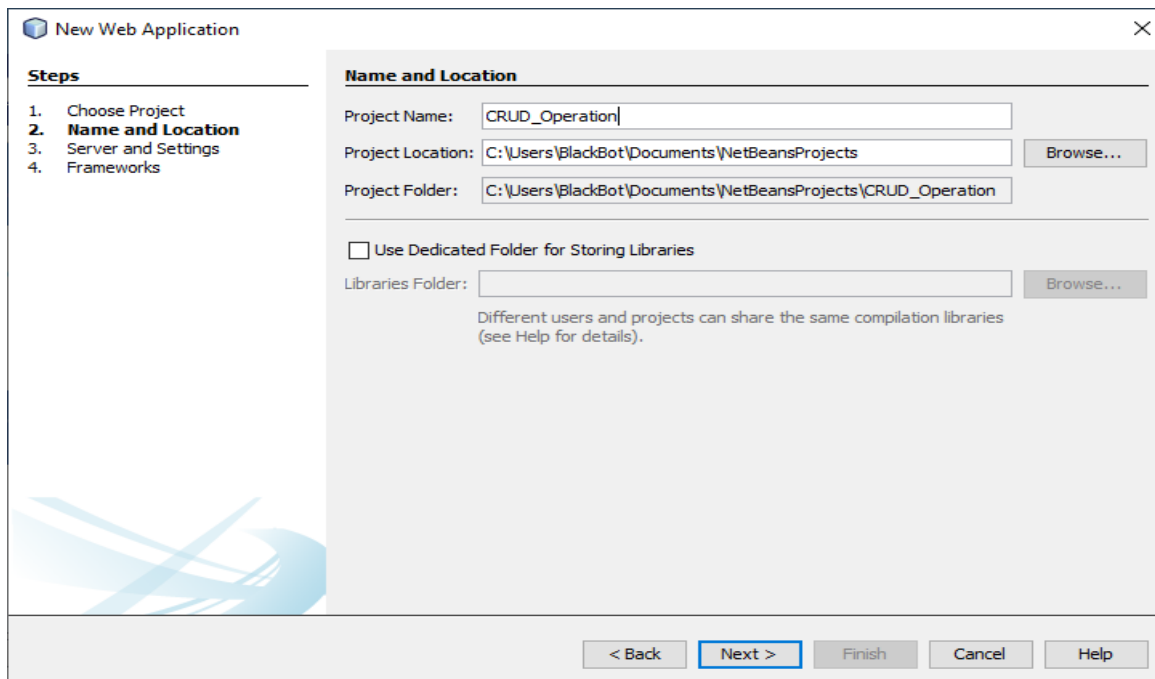
1) Right click on Java DB and then click on Start Server to start the server .

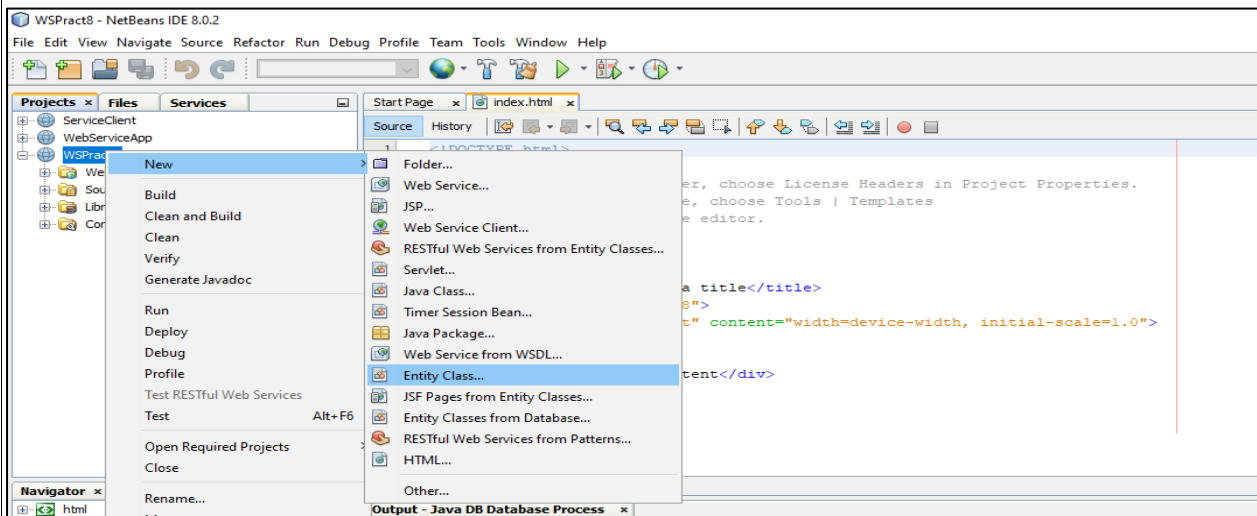


2) Now expand Java DB and right click on sample and then click on connect to connect the sample database with server.

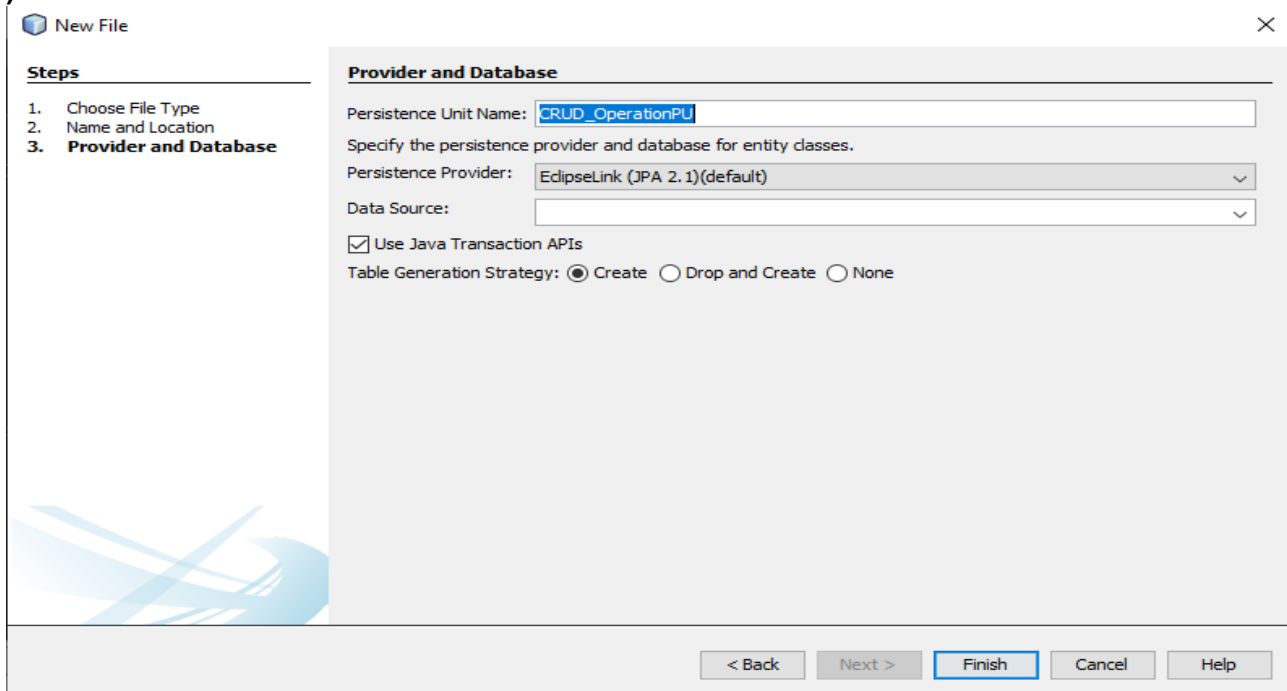


3) Now create a web application with the name **CRUD_Operation**. A window will open like following pic.



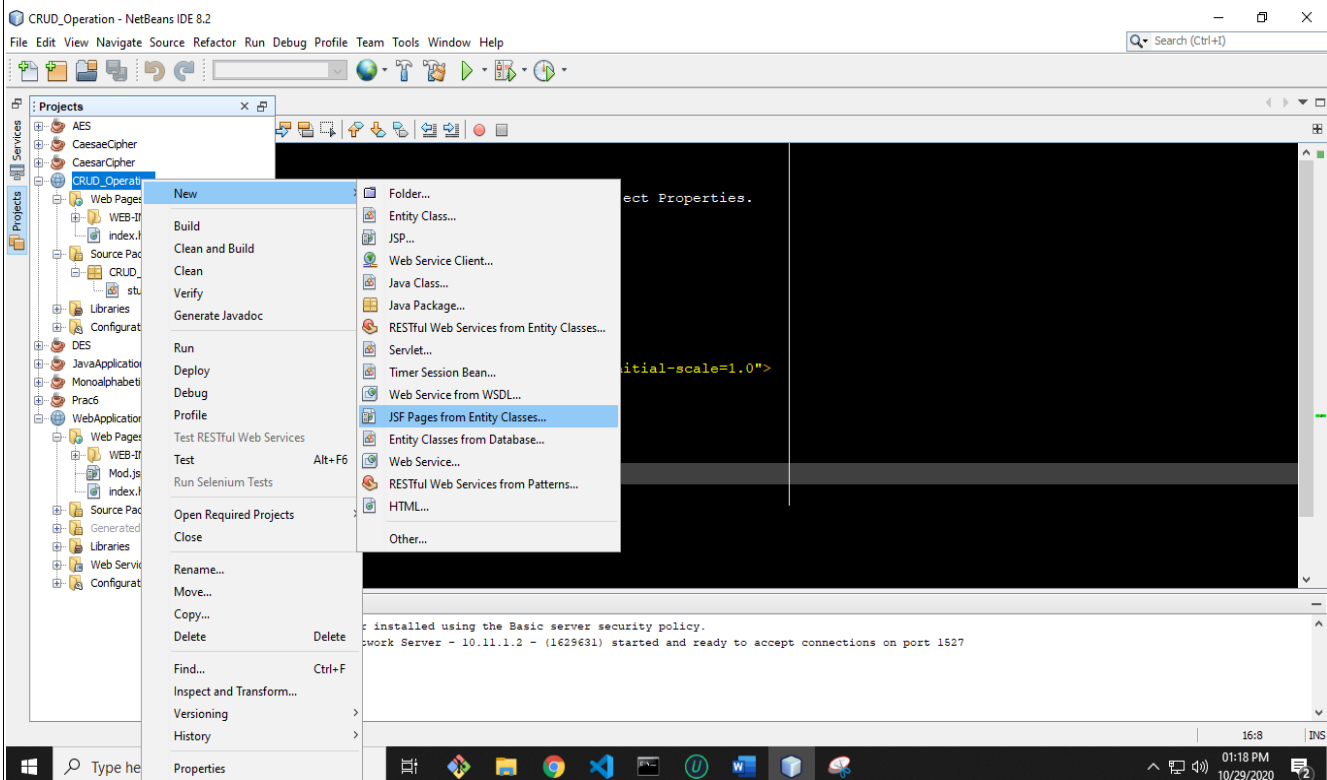
4) Create an entity class. Right click on project name -> New -> Entity Class.**5) A window will appear like bellow pic. Enter following data and click on Next**
Class Name : students
Package name : CRUD_OperationA screenshot of the 'New Entity Class' dialog box in NetBeans IDE. The dialog has a 'Steps' section on the left with three steps: 1. Choose File Type, 2. Name and Location (selected), and 3. Provider and Database. The 'Name and Location' section contains the following fields: 'Class Name' with the value 'students', 'Project' with the value 'CRUD_Operation', 'Location' with the value 'Source Packages', 'Package' with the value 'CRUD_Operation', and 'Created File' with the value 'Documents\NetBeansProjects\CRUD_Operation\src\java\CRUD_Operation\students.java'. There is a 'Primary Key Type' field with the value 'Long' and a 'Create Persistence Unit' checkbox which is checked. At the bottom, there are buttons for '< Back', 'Next >', 'Finish', 'Cancel', and 'Help'.

6) Click on Finish.



7) Right click on project name and create JSF Pages from Entity Classes.

Right click on project name -> New -> JSF Pages from Entity Classes



8) Select **wspract8.students** and click on **Add** button and then **Next** button on below.

New JSF Pages from Entity Classes

Steps

1. Choose File Type
- 2. Entity Classes**
3. Generate JSF Pages and Classes
4. JavaServer Faces Configuration

Entity Classes

Available Entity Classes:

CRUD_Operation.students

Selected Entity Classes:

☒ Include Referenced Classes

Select entity classes.

< Back Next > Finish Cancel Help

New JSF Pages from Entity Classes

Steps

1. Choose File Type
- 2. Entity Classes**
3. Generate JSF Pages and Classes
4. JavaServer Faces Configuration

Entity Classes

Available Entity Classes:

Selected Entity Classes:

CRUD_Operation.students

☒ Include Referenced Classes

< Back Next > Finish Cancel Help

9) A window like below will appear on the screen. Enter the data into that window as entered in below pic and click on Next button

The screenshot shows the 'New JSF Pages from Entity Classes' dialog box. The 'Steps' pane on the left lists: 1. Choose File Type, 2. Entity Classes, 3. **Generate JSF Pages and Classes**, and 4. JavaServer Faces Configuration. The main area is titled 'Generate JSF Pages and Classes' and contains the following fields:

- Project:
- Location:
- Session Bean Package:
- JSF Classes Package:
- Specify the location of new JSF pages:
 - JSF Pages Folder:
 - Localization Bundle Name:
 - ☐ Override existing files
- Choose Templates: [Customize Template](#)

At the bottom, there are buttons: < Back, Next > (highlighted), Finish, Cancel, and Help.

10) Now click on Finish

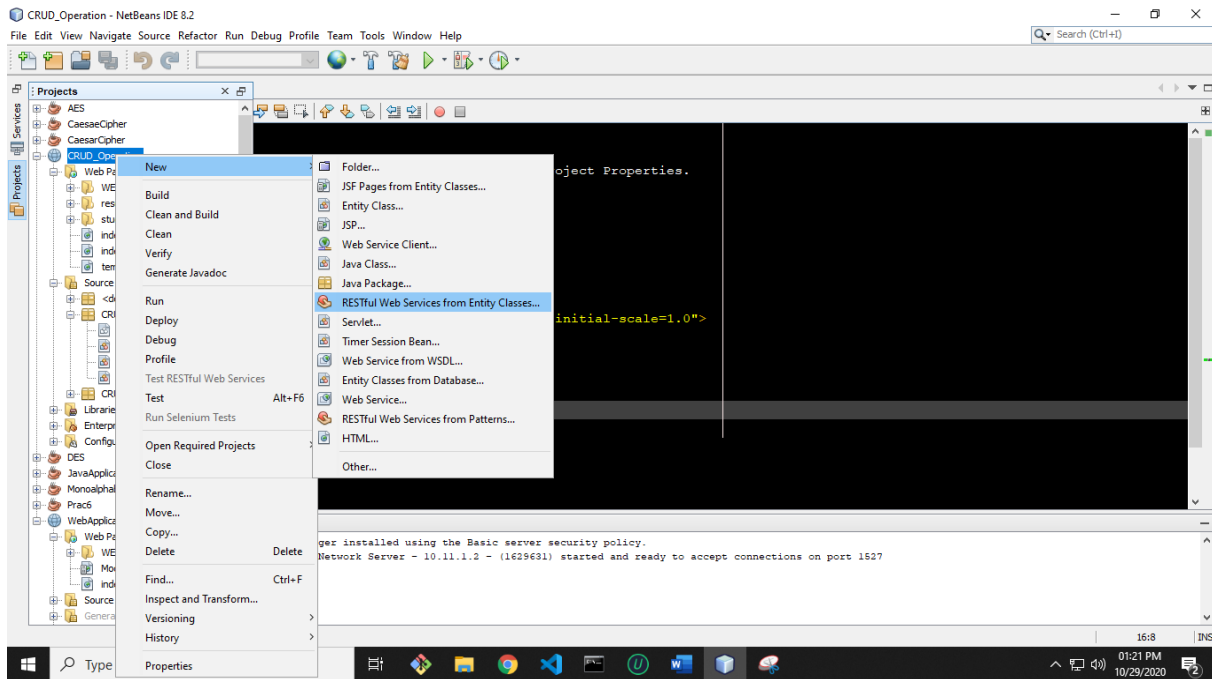
The screenshot shows the 'New JSF Pages from Entity Classes' dialog box, Step 4: JavaServer Faces Configuration. The 'Steps' pane on the left lists: 1. Choose File Type, 2. Entity Classes, 3. Generate JSF Pages and Classes, and 4. **JavaServer Faces Configuration**. The main area is titled 'JavaServer Faces Configuration' and contains the following fields:

- Specify JavaServer Faces configuration and library information.
- Libraries (selected tab):
 - ☒ Server Library:
 - ☐ Registered Libraries:
 - ☐ Create New Library
 - JSF Folder or JAR:
 - Library Name:

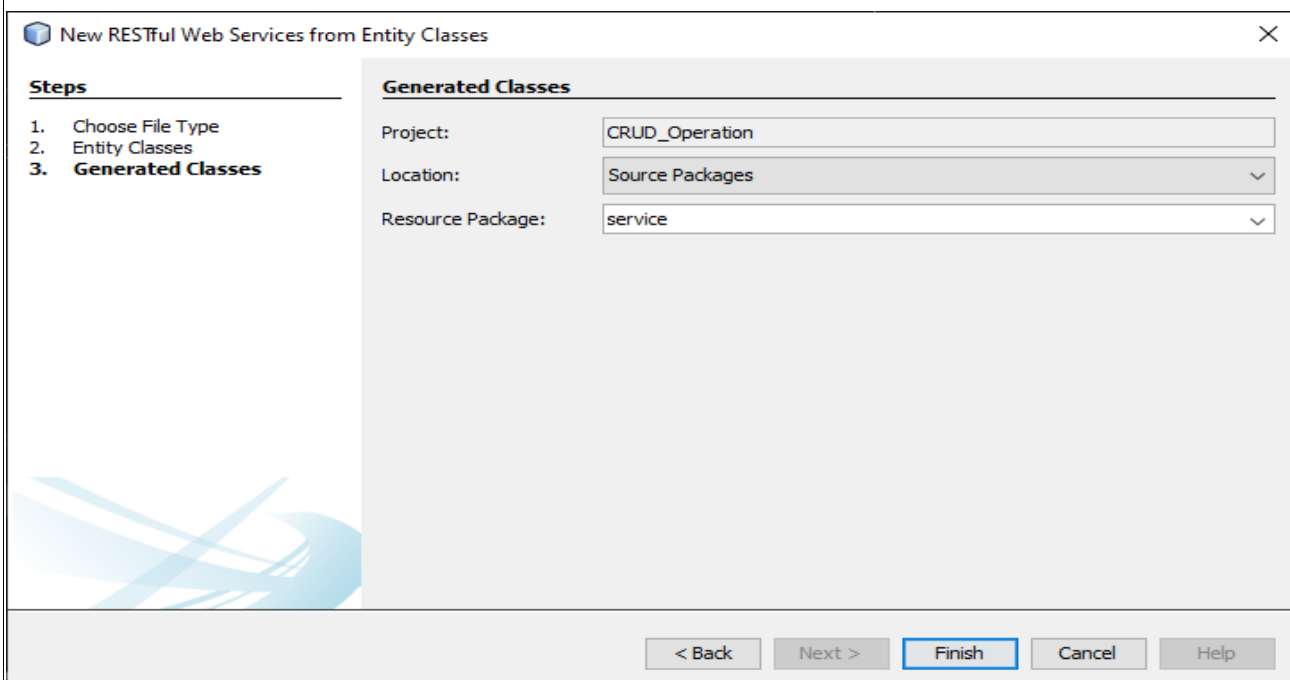
At the bottom, there are buttons: < Back, Next >, Finish (highlighted), Cancel, and Help.

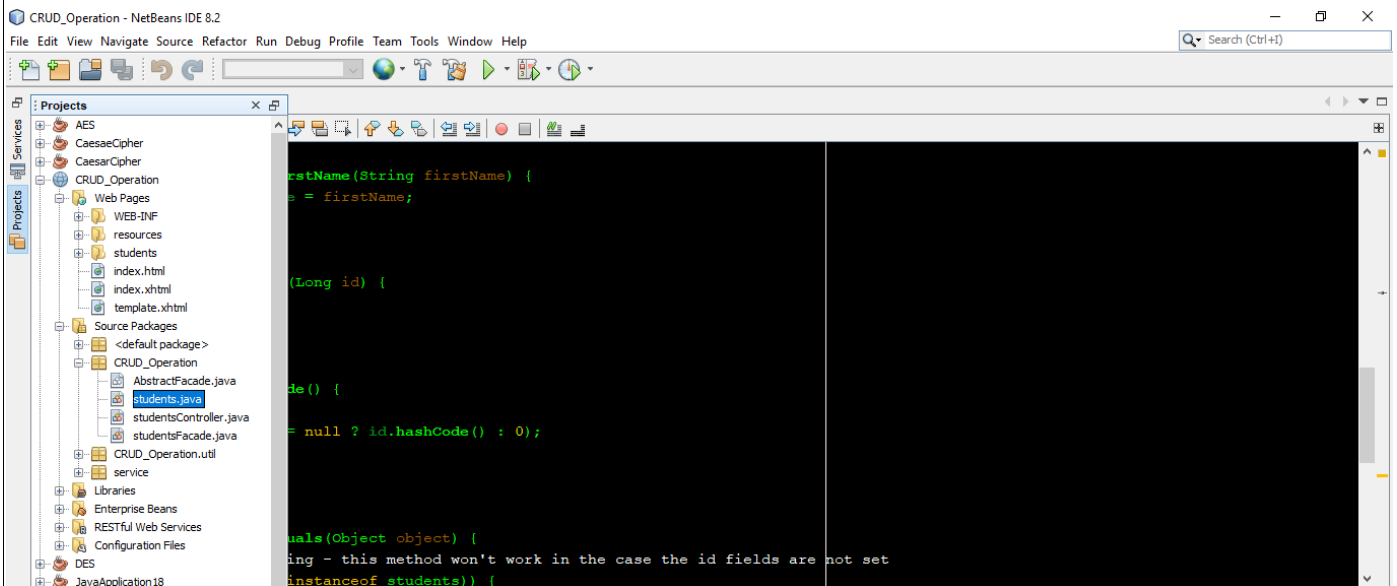
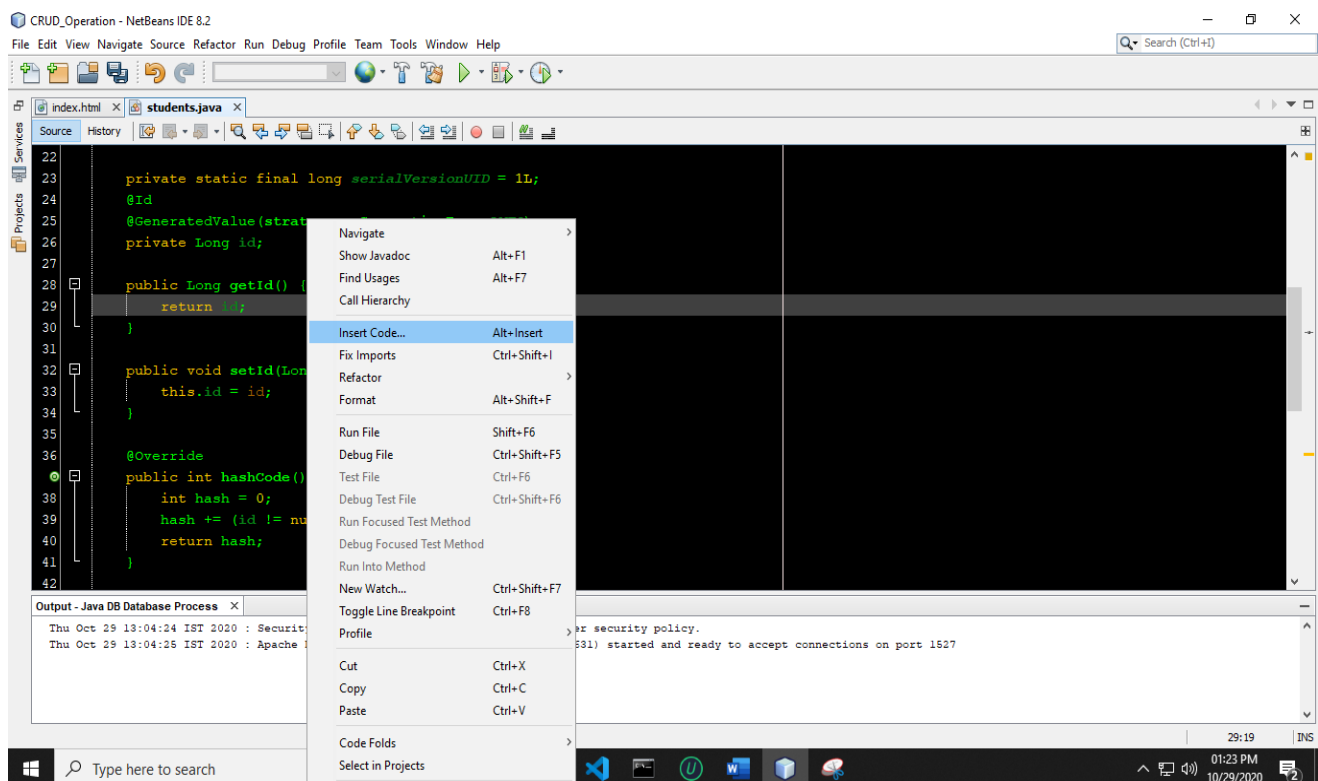
11) Right click on project name and create RESTful Web Services from Entity Classes.

Right click on project name -> New -> RESTful Web Services from Entity Classes

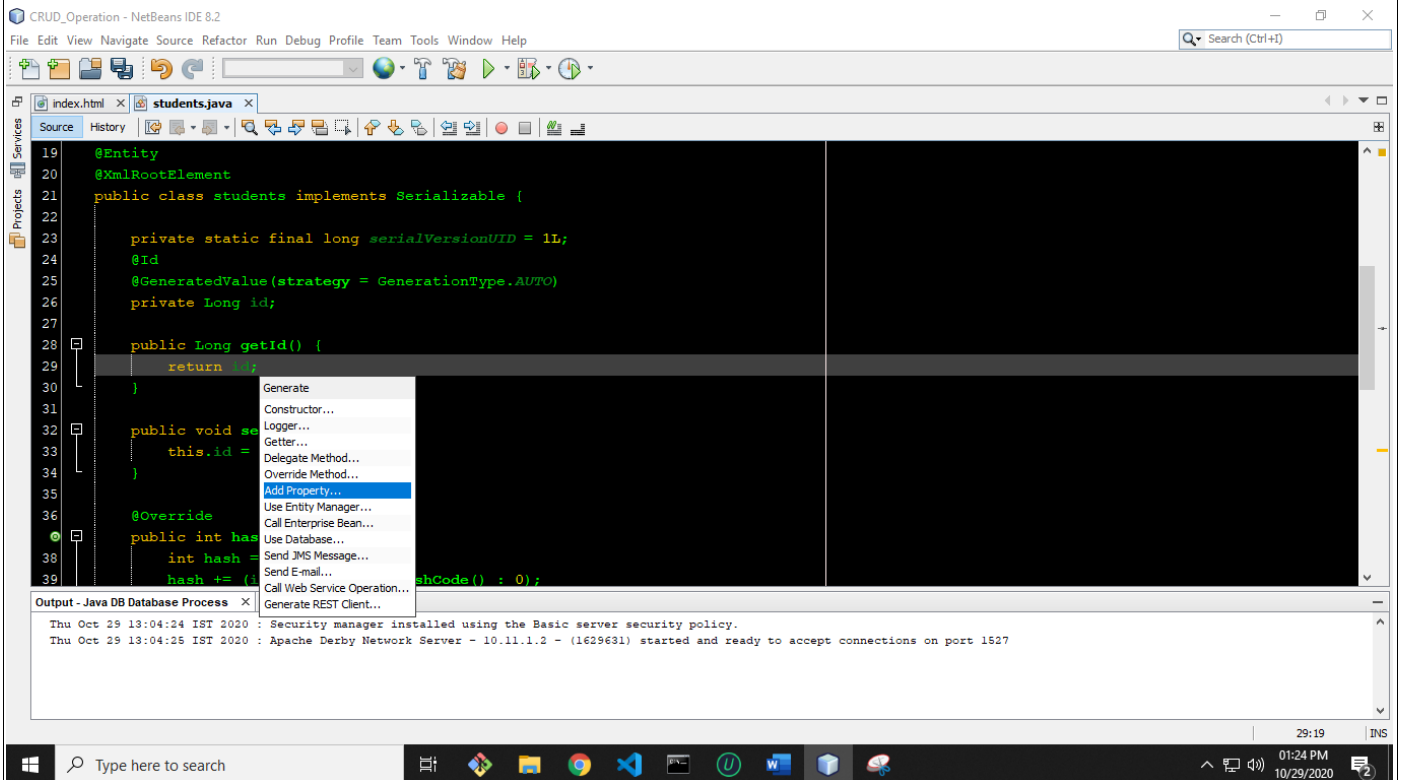


12) Repeat step 9 and then it will go on next page. Then enter the service in Resource Package and then click on Finish button.

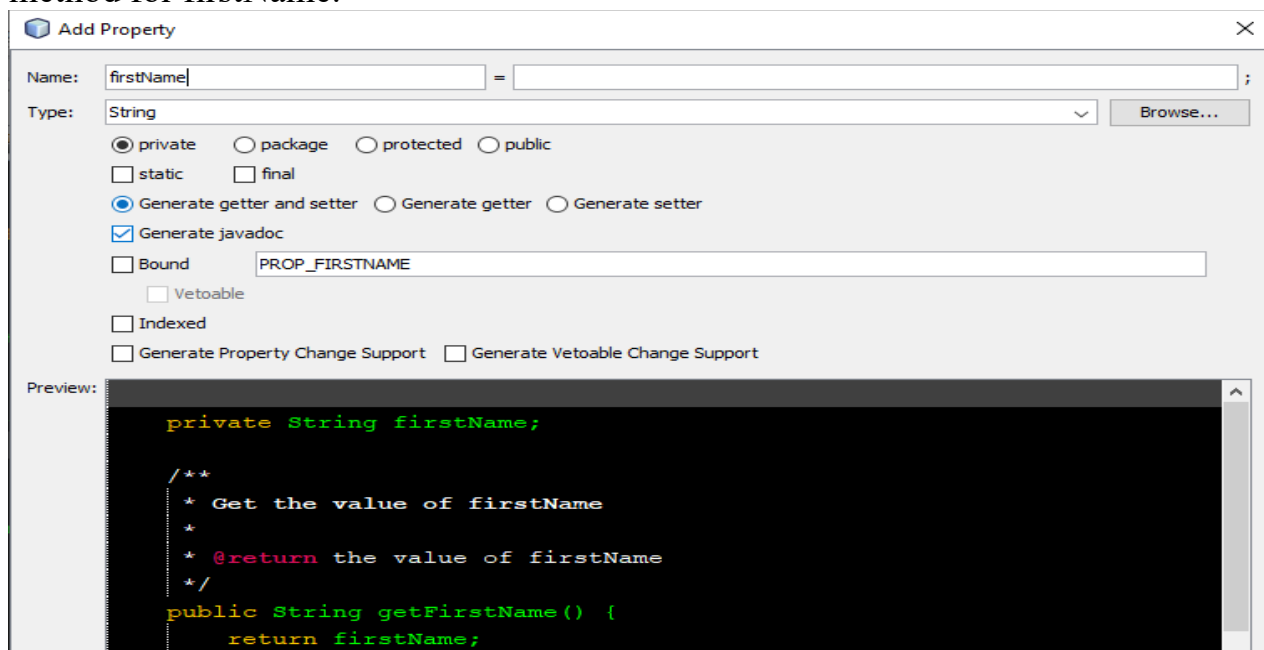


13) Now open students.java file under wspract8 package.**14) In this file below line private Long id; do the right click and select Insert Code.**

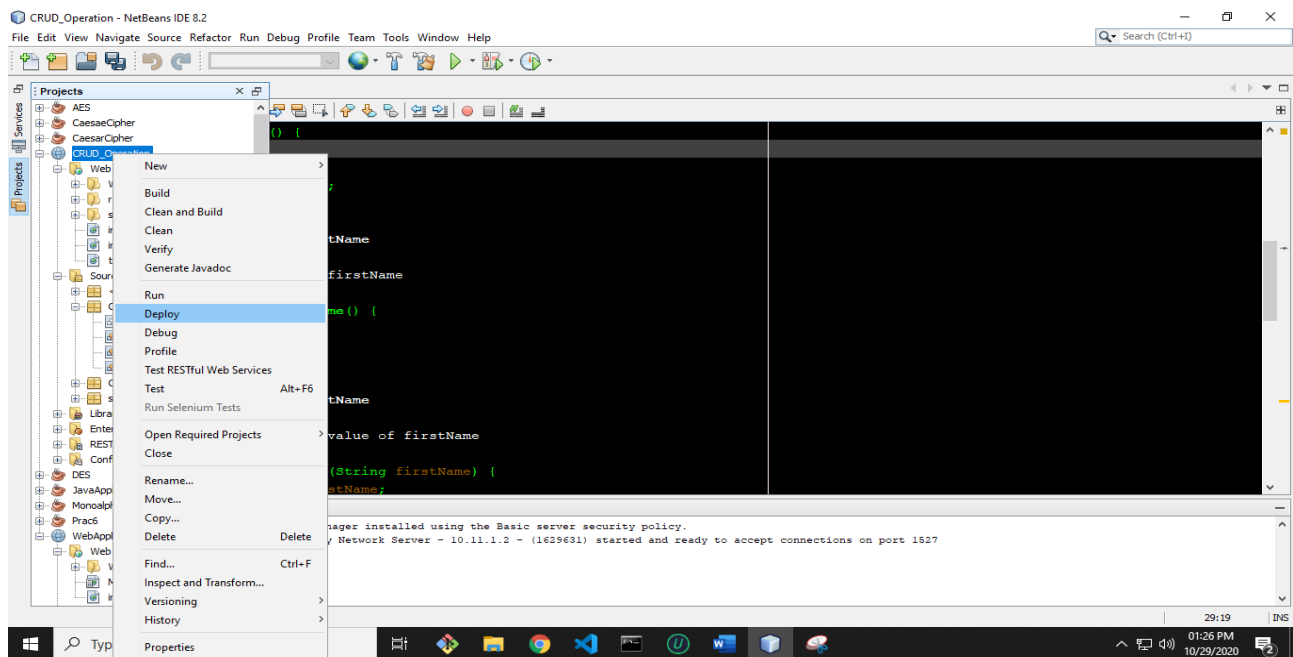
15) A new list will appear. Click on Add Property.



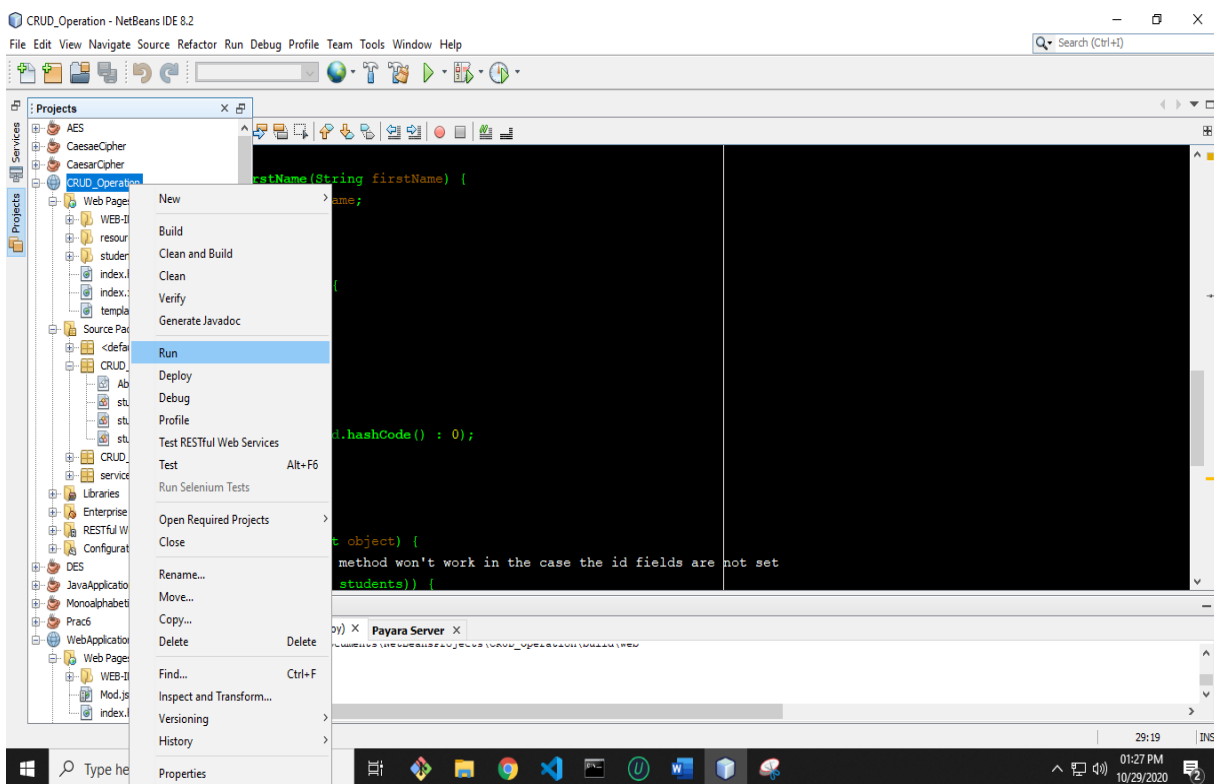
16) A new window will open. Enter name as **firstName**. Make sure name should be exact same as of mine and then **click on OK button**. Actually we are setting getter and setter method for firstName.



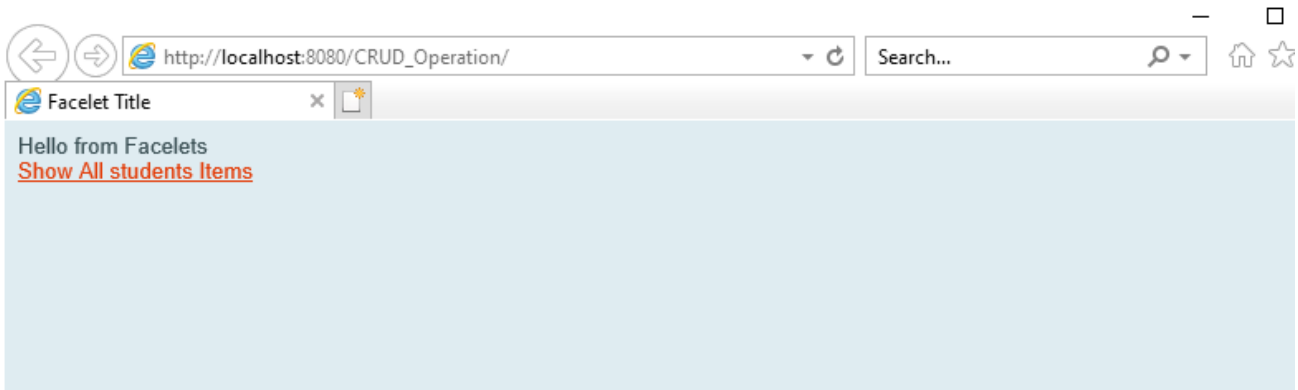
17) Now right click on web application name and Deploy it.



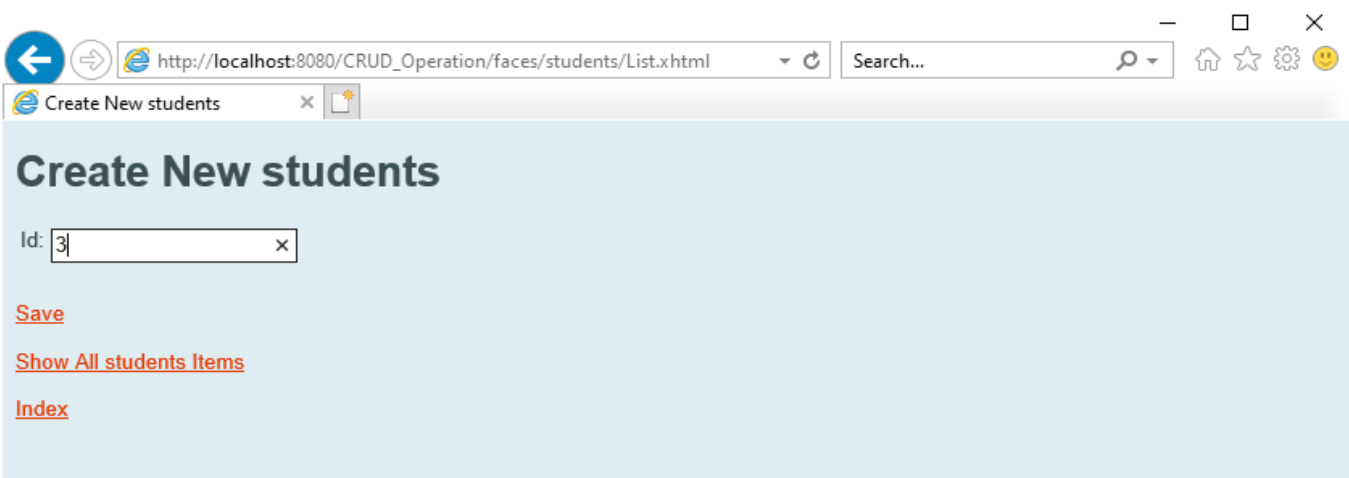
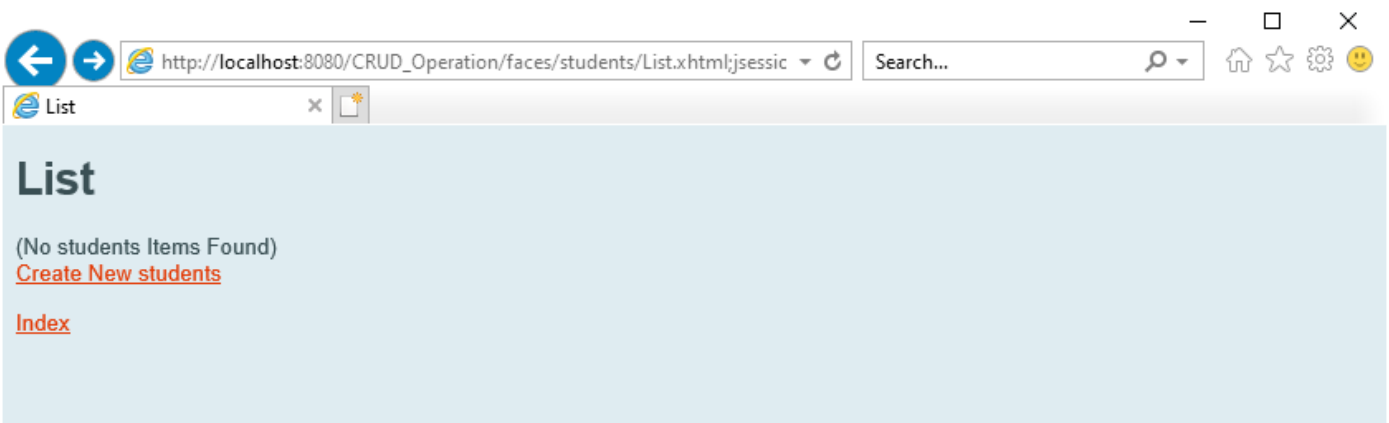
18) Now right click on project name and run it.



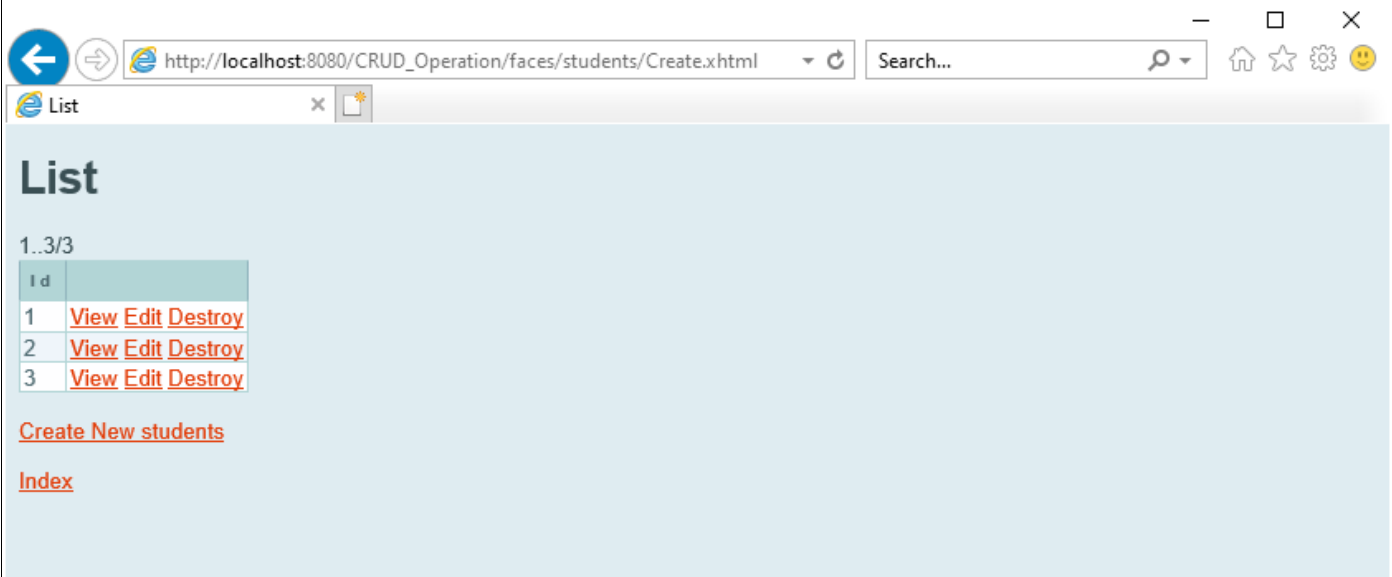
19) A window will open in browser like below.



20) Now **click on Show All students** Items for CRUD operation. Just click on Create New students. **Enter a name into FirstName** and **id into Id**. Now **click on Save** option to save the data.



21) Now click on **Show All students Items** to view all records whether our data is entered or not.



22) Delete the Record

