Roll No: 713 Pg.No:	
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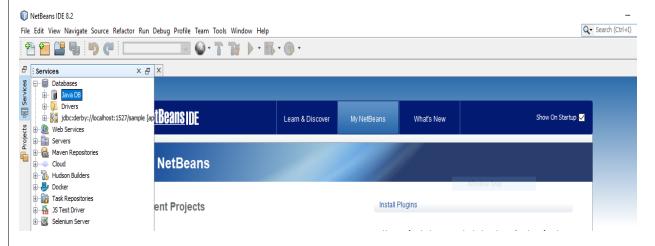
Date: 28/10/2020

Practical no 8

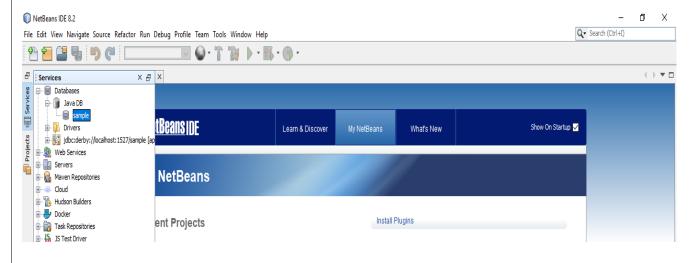
<u>AIM</u>: Define a RESTful web service that accepts the details to be stored in a database and performs CRUD operation.

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.



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Roll No: 713 Pg.No: 3) Now create a web application with the name CRUD_Operation. A window will open like following pic. New Web Application × Name and Location Steps Choose Project Project Name: CRUD Operation Name and Location Server and Settings Project Location: C:\Users\BlackBot\Documents\WetBeansProjects Browse... Frameworks Project Folder: C:\Users\BlackBot\Documents\NetBeansProjects\CRUD_Operation Use Dedicated Folder for Storing Libraries Libraries Folder: Different users and projects can share the same compilation libraries (see Help for details). < Back Next > Finish Cancel Help CRUD_Operation - NetBeans IDE 8.2 File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Q - Search (Ctrl+I) $\longleftrightarrow \, \mathbf{v}$ Source History | 🚱 👺 + 🐺 + | 🔩 🐶 🖶 📮 | 🚱 😓 | 💇 💇 | 🥚 🗐 霊 ₽ <!--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. 6 <meta name="viewport" content="width=device-width, initial-scale=1.0"> 13 14 Output - Java DB Database Process X Thu Oct 29 13:04:24 IST 2020 : Security manager installed using the Basic server security policy. Thu Oct 29 13:04:25 IST 2020 : Apache Derby Network Server - 10.11.1.2 - (1629631) started and ready to accept connections on port 1527 **Web Services** T.Y.B.S.c.C.S.Sem-V

Roll No: 713 Pg.No: 4) Create an entity class. Right click on project name -> New -> Entity Class. WSPract8 - NetBeans IDE 8.0.2 File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Projects × Files Services

Start Page x index.html x Source History | 🚱 👺 + 🔊 → | 🔩 👺 🖶 📮 | 🚱 😓 | 😂 🔩 ڬ | 🔘 🖂 er, choose License Headers in Project Properties. e, choose Tools | Templates e editor. ■ Web Service... Build Clean and Build Web Service Client... RESTful Web Services from Entity Classes... Verify Servlet... Generate Javadoc a title</title> Java Class... " content="width=device-width, initial-scale=1.0"> Deploy Java Package... Debug Web Service from WSDL... Profile Entity Class... JSF Pages from Entity Classes... Alt+F6 Entity Classes from Database... RESTful Web Services from Patterns... Open Required Projects HTML... Output - Java DB Database Process × 5) A window will appear like bellow pic. Enter following data and click on Next **Class Name: students** Package name: CRUD Operation New Entity Class × Name and Location Steps Choose File Type Class Name: students Name and Location 2. Provider and Database CRUD_Operation Project: Location: Source Packages

Package: CRUD_Operation Primary Key Type: Long Create Persistence Unit Finish < Back Next > Cancel Help **Web Services** T.Y.B.S.c.C.S.Sem-V

Roll No: 713

Pg.No: ____

New File

Steps

1. Choose File Type
2. Name and Location
3. Provider and Database

Persistence Unit Name: RUD_OperationPU
Specify the persistence provider and database for entity classes.

Persistence Provider: EclipseLink (JPA 2.1)(default)

Data Source:

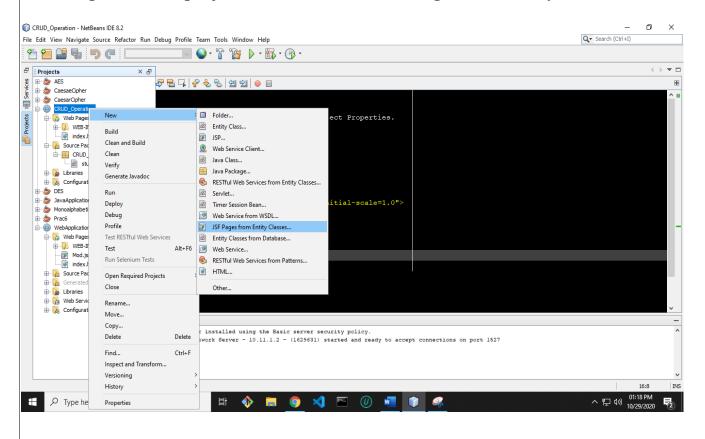
Use Java Transaction APIs
Table Generation Strategy: © Create O Drop and Create None

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

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

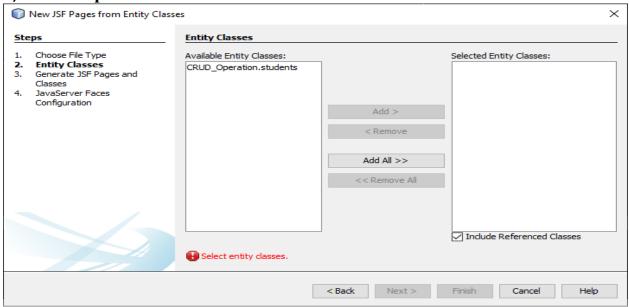
< Back Next > Finish Cancel

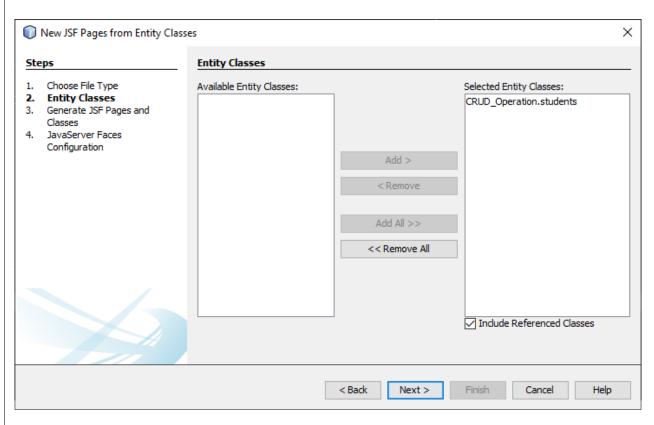
T.Y.B.S.c.C.S.Sem-V



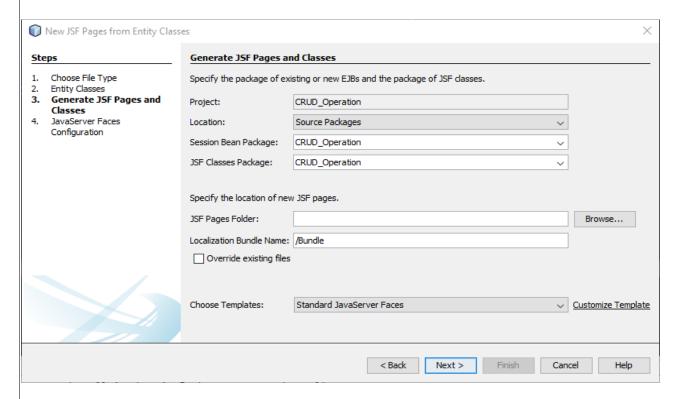
Web Services

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

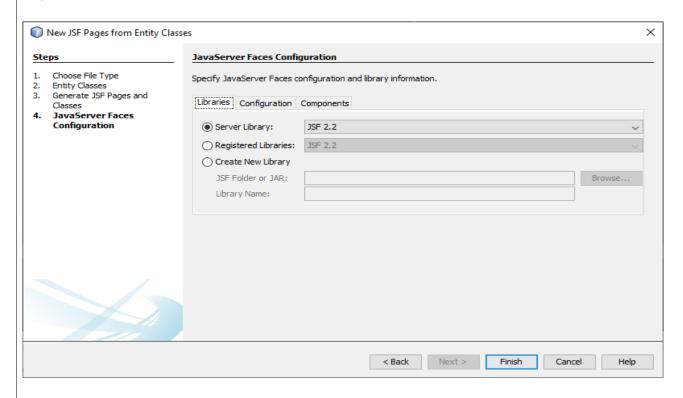




9)A window like below will appear on the screen. Enter the data into that window as entered in below pic and click on Next button

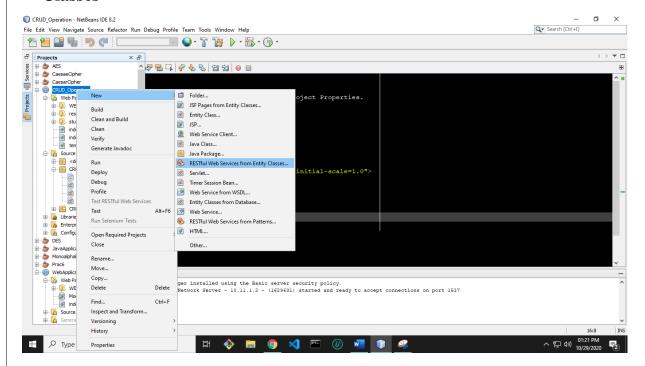


10) Now click on Finish

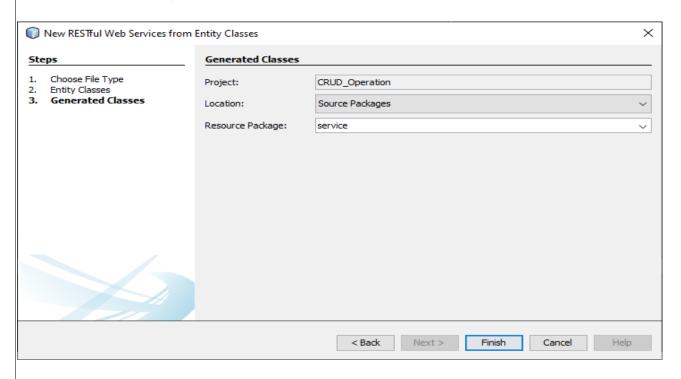


11) Right click on project name and create RESTful Web Services from Entity Classes.

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.

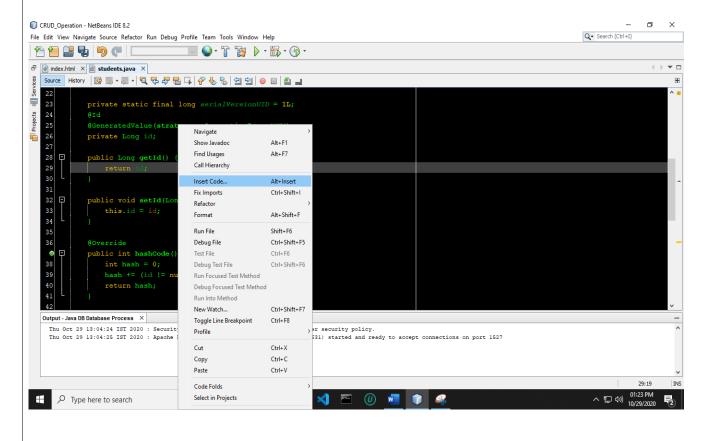


Web Services T.Y.B.S.c.C.S.Sem-V

Roll No: 713 Pg.No: ____ 13) Now open students.java file under wspract8 package. CRUD_Operation - NetBeans IDE 8.2 Q Search (Ctrl+I) File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help _____ 📦 - 🕆 🥞 🕨 - 🚯 - 🕦 -AES
CaesaeCipher
CaesarCipher
CRUD_Operation ₩. index.html
index.xhtml
template.xhtml (Long id) { Source Packages i - (default package) CRUD_Operation AbstractFacade.java
students.java
studentsController.java studentsFacade.java ⊕ ☐ CRUD_Operation.util service Enterprise Beans RESTful Web Services ⊕ Configuration Files ing - this method won't work in the case the id fields are not set DES

JavaApplication 18

14) In this file below line private Long id; do the right click and select Insert Code.



Roll No: 713 Pg.No: 15) A new list will appear. Click on Add Property. File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Q - Search (Ctrl+I) ♂ index.html × ⊗ students.java × Source History | 🚱 👼 - 👼 - 💆 🔁 🚭 📮 | 🍄 😓 | 😉 🖭 | 🍥 🔲 | 🕮 🚅 @Entity
@XmlRootElement 22 23 24 25 26 27 28 29 30 31 32 33 @GeneratedValue(strategy = GenerationType.AUTO) private Long id; public Long getId() { Constructor... Logger... Getter... Delegate Method... Delegate Method...

Override Method...

Add Property...

Use Entity Manager...

Call Enterprise Bean...

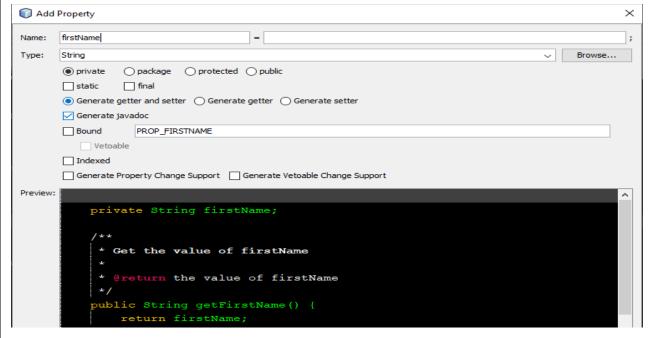
Use Database...

Send JMS Message...

Send E-mail Sender Open int hash Call Web Service Operation.. Output - Java DB Database Process × Generate REST Client... Thu Oct 29 13:04:24 IST 2020 : Security manager installed using the Basic server security policy.

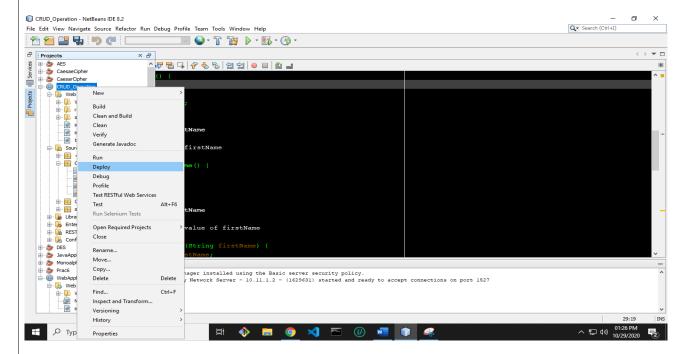
Thu Oct 29 13:04:25 IST 2020 : Apache Derby Network Server - 10.11.1.2 - (1629631) started and ready to accept connections on port 1527 Type here to search 財 🚸 🔚 🧿 刘 🖭 🕖 💆 🇊

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.

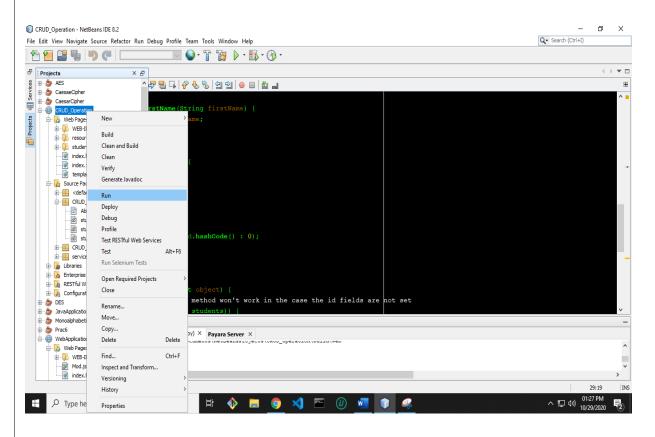


Web Services T.Y.B.S.c.C.S.Sem-V

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



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



Roll No: 713 Pg.No: ____ 19) A window will open in browser like below. http://localhost:8080/CRUD_Operation/ Search... Facelet Title Hello from Facelets Show All students Items 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. 🌎 餐 http://localhost:8080/CRUD_Operation/faces/students/List.xhtml;jsessic 🔻 🕻 Search... List List (No students Items Found) Create New students Index **ρ** - Ω ☆ ∰ ⊕ (a) ttp://localhost:8080/CRUD_Operation/faces/students/List.xhtml → ♂ Search... Create New students **Create New students** ld: 3 Save Show All students Items <u>Index</u> **Web Services** T.Y.B.S.c.C.S.Sem-V

