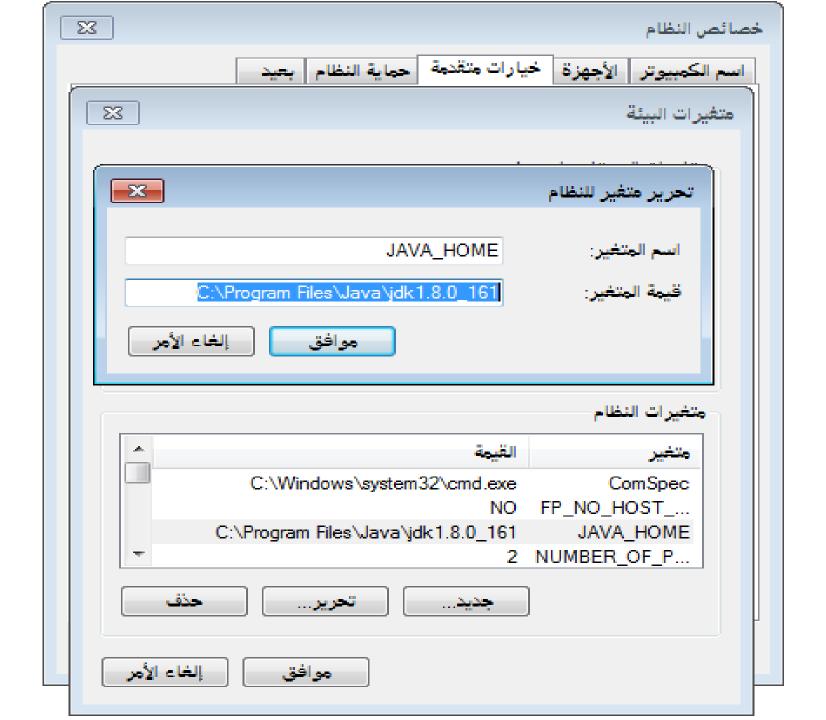
# Steps To Work With J2EE and mysql

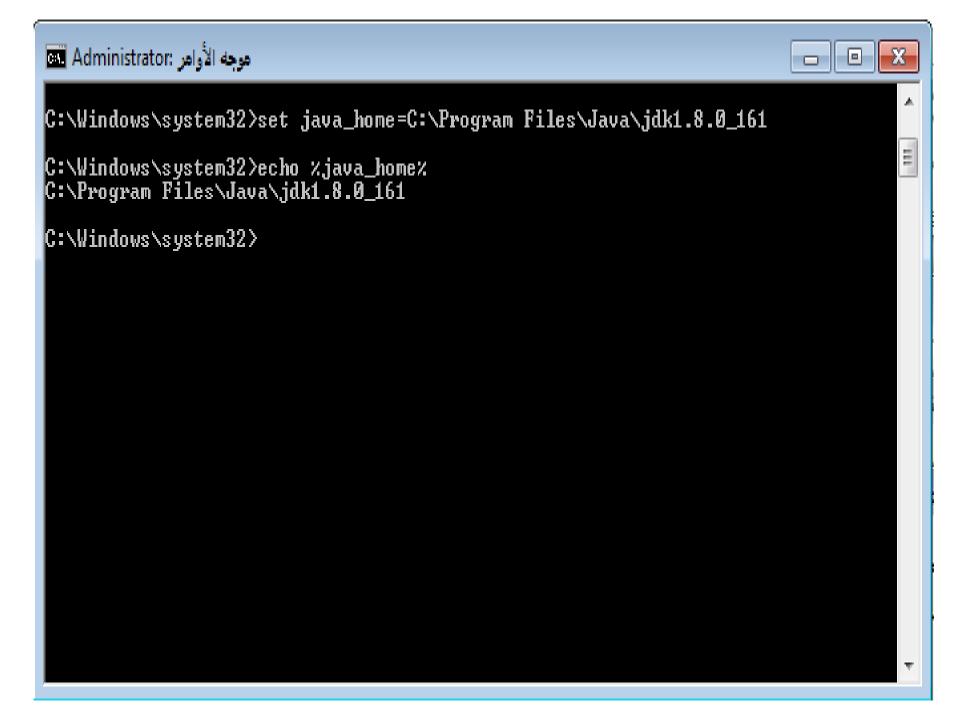
إعداد: د. أبيّ سلّوم

# set java\_home

 JAVA\_HOME: not used by Java itself. Some thirdparty programs (for example Apache Tomcat, GlassFish,.....)use it.



- In CMD Write:
  - set JAVA\_HOME=path of JDK
  - echo %JAVA\_HOME%

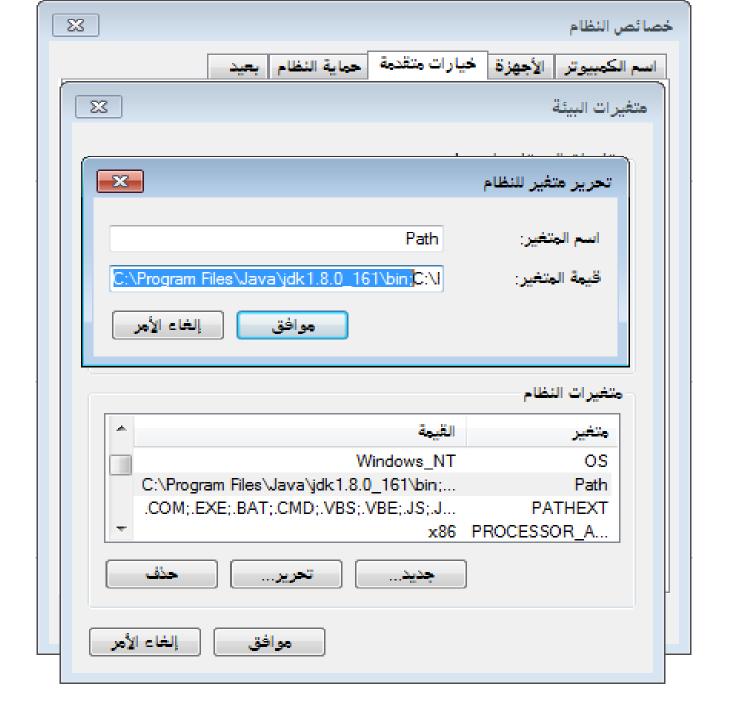


## Include JDK's "bin" Directory in the PATH

PATH is an environment variable used by the operating system (Windows, Linux) where it will look for native executable programs to run.

- Variable name : PATH
- Variable value : path to JDK\bin;[do not delete exiting entries...];

- Verify the JDK Installation
  - prompt> path



## MySQL (initilize-start)

Make dirctory myWebProject in C dirve.

unzip mysql-5.7.21-win32 in myWebProject folder .

Rename the unziped folder to mysql.

 Unzip mysql-connector-java-5.1.{xx}.zip in myWebProject folder and put the bin file in mysql\bin

- Open cmd
- Change directory to the MySQL's binary directory
  - cd \myWebProject\mysql\bin
- Initialize the database.
  - Mysqld --initialize --console
  - Install the missing .dll files
  - This will Create a root user with random password. Show the messages on console
  - [Note] A temporary password is generated for root@localhost: xxxxxxxx (save this password(without space and with; ) in outer file because we will need it later)

- Open new cmd
- Start the "Server"
  - cd \myWebProject\mysql\bin
  - mysqld --console
  - [Note] mysqld: ready for connections.notice it in slide 17 port: 3306 MySQL Community Server (GPL)
- Shutdown Server (CTL+C)(do not stop server now but in the last step)

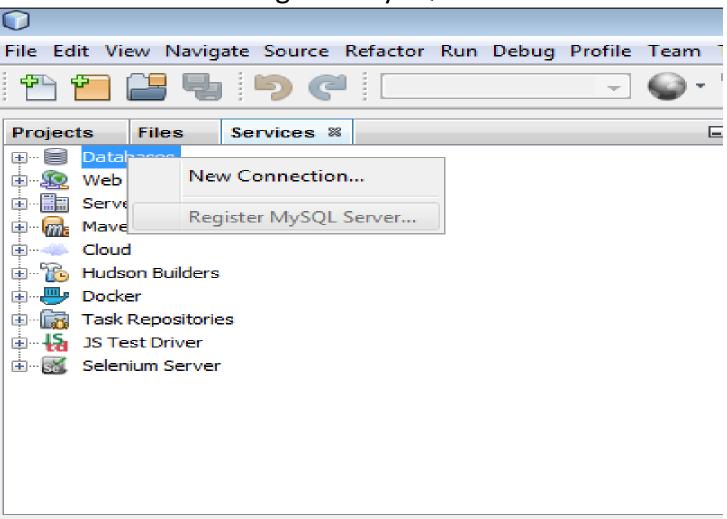
- Open new cmd
- Start a "Client"
   Start a client as superuser "root" (-u), and prompt for password (-p)

- cd \myWebProject\mysql\bin
- mysql -u root -p
- mysql>
  - Enter password: // Enter the root's password set during installation (the password that you save in outer file).

- Change the Password for the Superuser "root"
  - mysql> alter user 'root'@'localhost' identified by 'xxxx';
  - Note: replace xxxx with your chosen password(1234) enclosed by a pair of single-quotes.
  - mysql> quit
- Close the cmd for client
- Re-Start a Client as "root" with the New Password
  - Open new cmd
  - cd \myWebProject\mysql\bin
  - mysql -u root -p

# **Configuring MySQL Server Properties**

 Right-click the Databases node in the Services window in netbeans and choose Register MySQL Server.



erver host name:	localhost	
erver port number:	3306	
dministrator user name:	root	
dministrator password:	****	
Save password (se	e Help for security risks	)

# **Admin Properties tab**

- location of your MySQL Administration application
  - mysqladmin in the bin folder

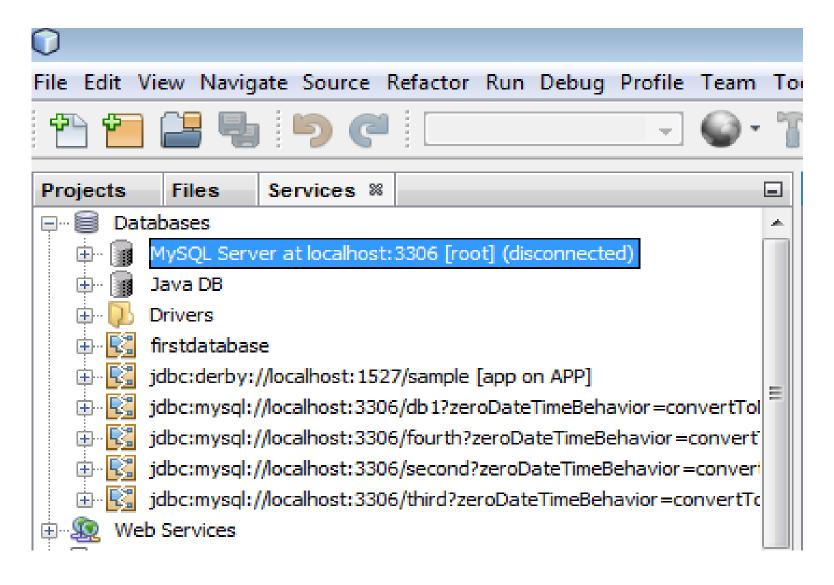
- location of the MySQL start command.
  - mysqld in the bin folder

- location of the MySQL stop command.
  - mysqladmin in the bin folder

• in the Arguments field, type -u root stop

0 0	MySQL Server Properties	
	Basic Properties Admin Properties	
Path/URL to admin tool:	ocal/mysql-5.0.51a-osx10.4-i686/bin/mysqladmin	Browse
Arguments:		
Path to start command:	usr/local/mysql-5.0.51a-osx10.4-i686/bin/mysqld	Browse
Arguments:		
Path to stop command:	ocal/mysql-5.0.51a-osx10.4-i686/bin/mysqladmin	Browse
Arguments:	-u root stop	

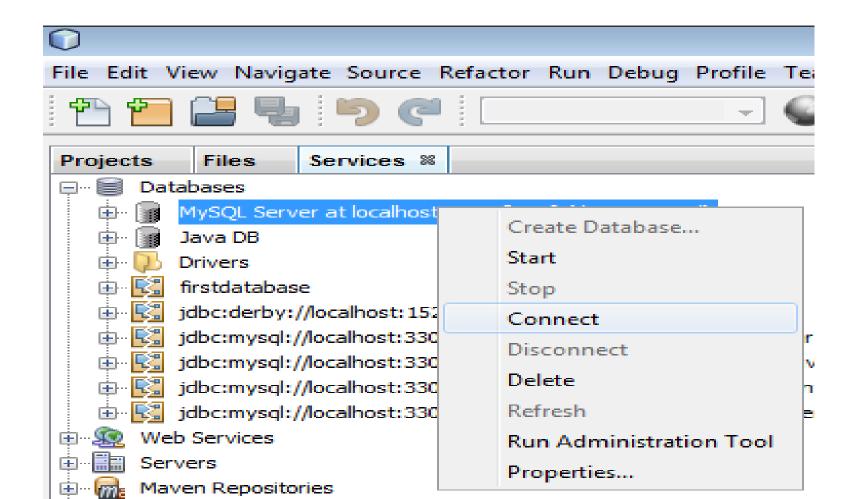
#### Show that mysql server is desconnect

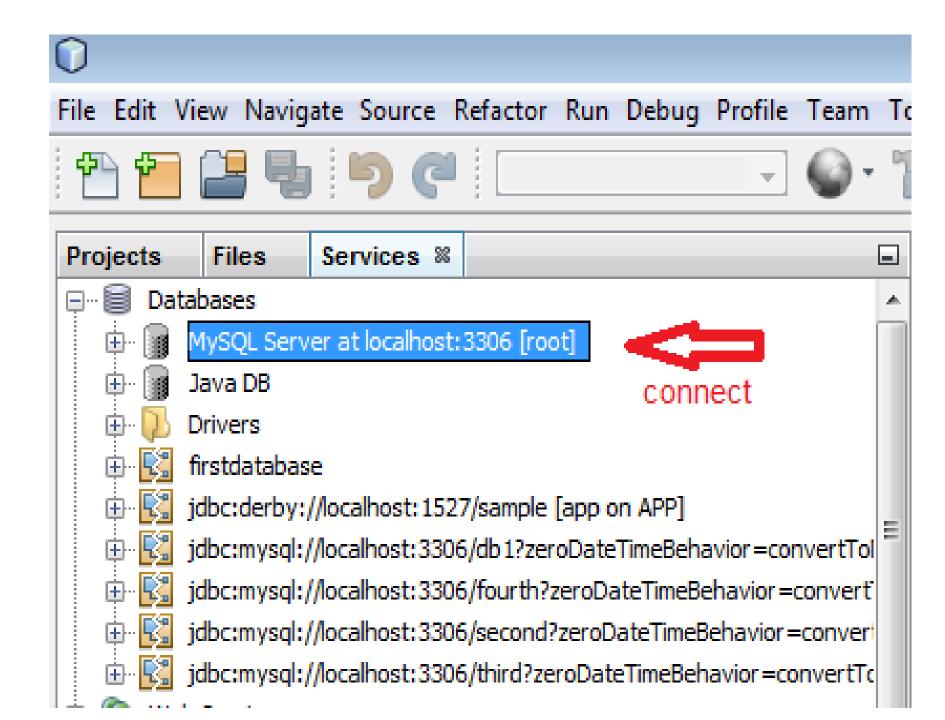


 confirm that the MySQL Database Server is running on your machine. From slide

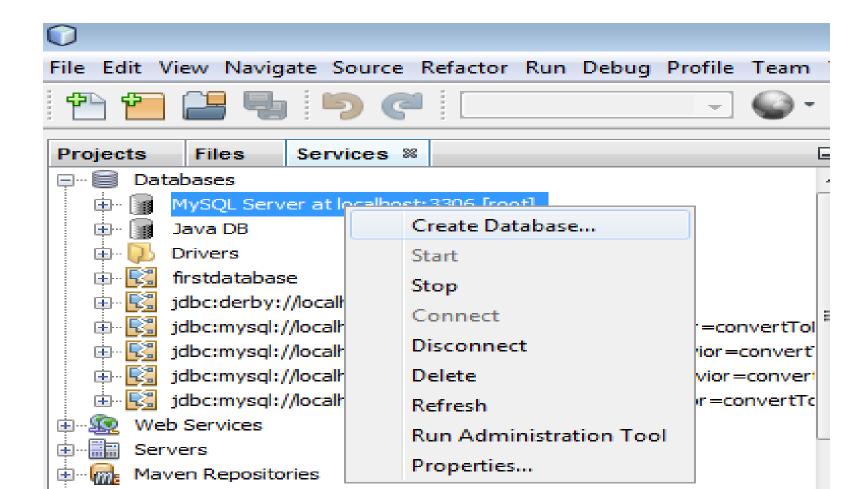
```
mysqld --console - موجه الأوامر :Administrator
2018-03-28T17:06:01.330272Z 0 [Note] InnoDB: File '.\ibtmp1' size is now 12 MB.
96 redo rollback segment(s) are active.
active.
2592645
bProject\mysgl\data\ib_buffer_pool
owing SSL library error: SSL context is not usable without certificate and priva
te key
3306
- '::' resolves to '::';
2018-03-28T17:06:02.172674Z 0 [Note]
2018-03-28T17:06:05.292679Z 0 [Note] mysqoldsymbol{\mathbb{N}}: ready for connections.
           port: 3306 m. COL Community Server (CLL)
Version: '5.7.21'
       socket:
```

 right-click the Databases > MySQL Server node in the Services window and choose Connect

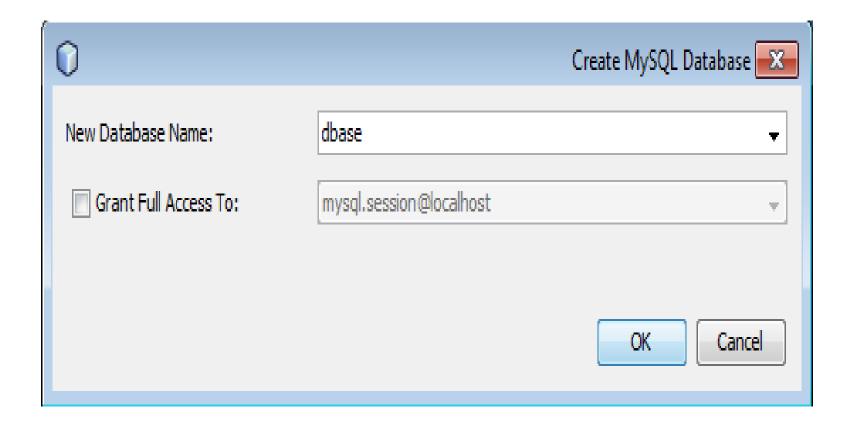




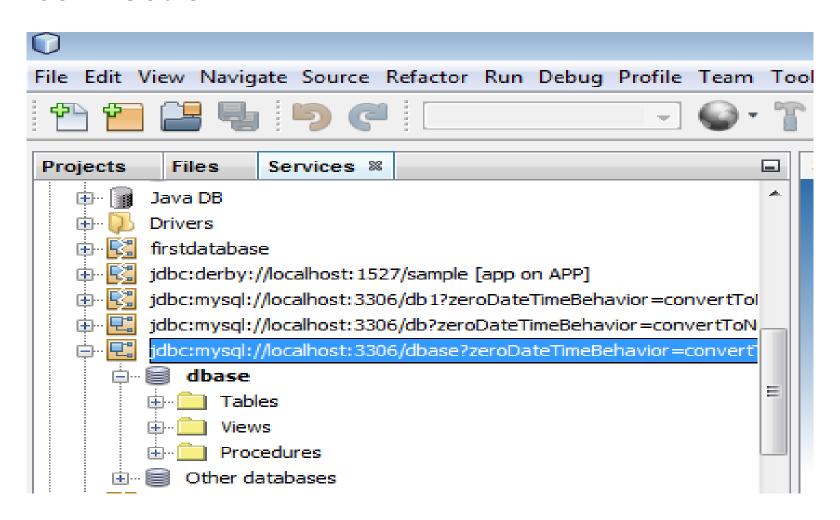
 right-click the Databases > MySQL Server and choose create database.



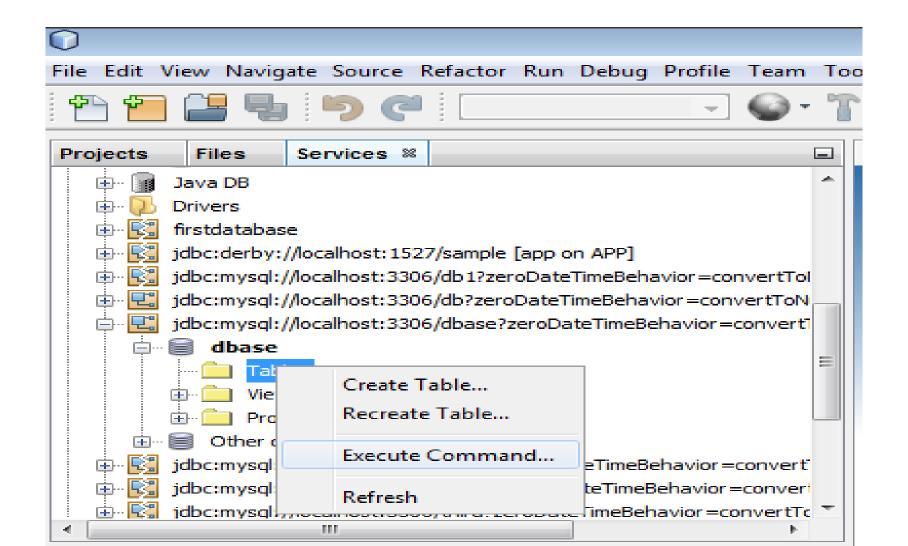
Enter the name of data base



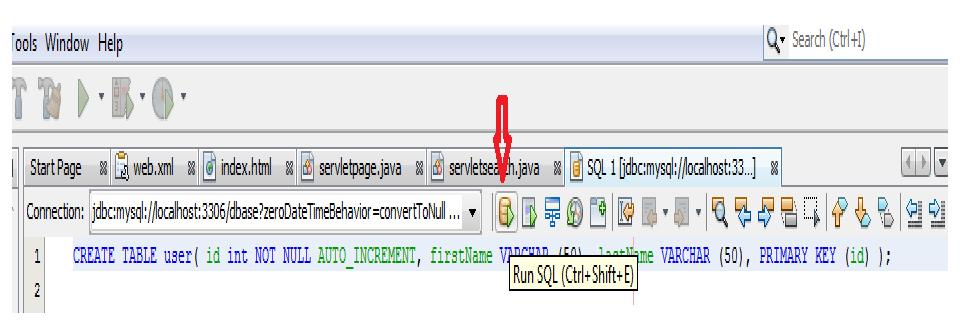
This will add database and database connection

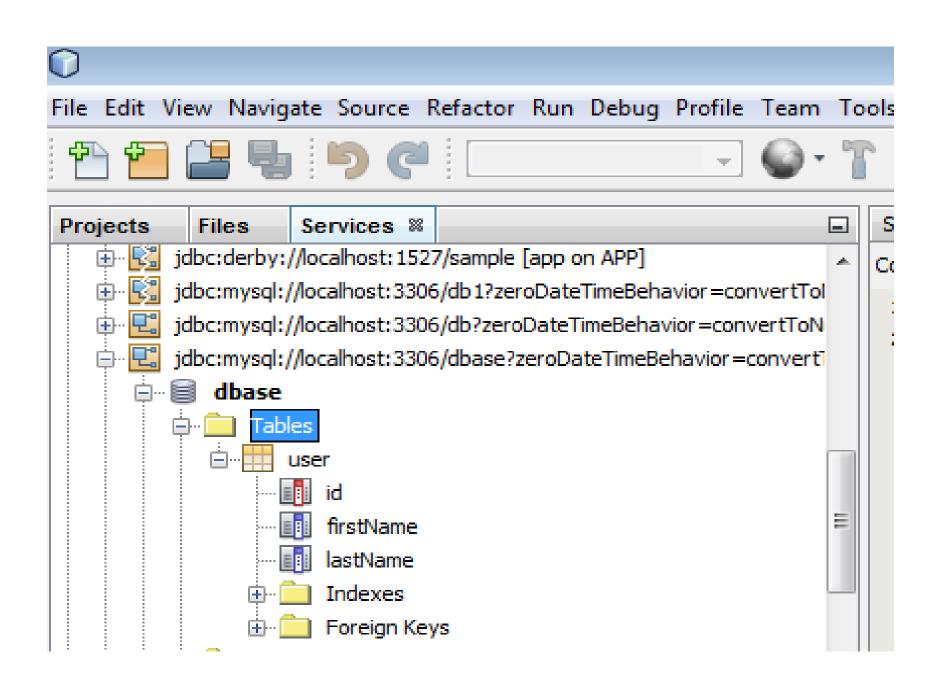


#### Create table user in dbase

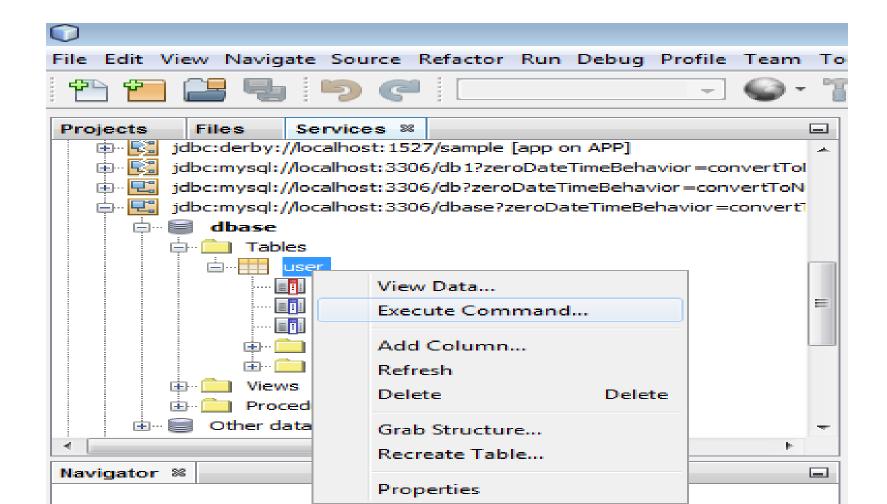


#### Write query and press Run SQL

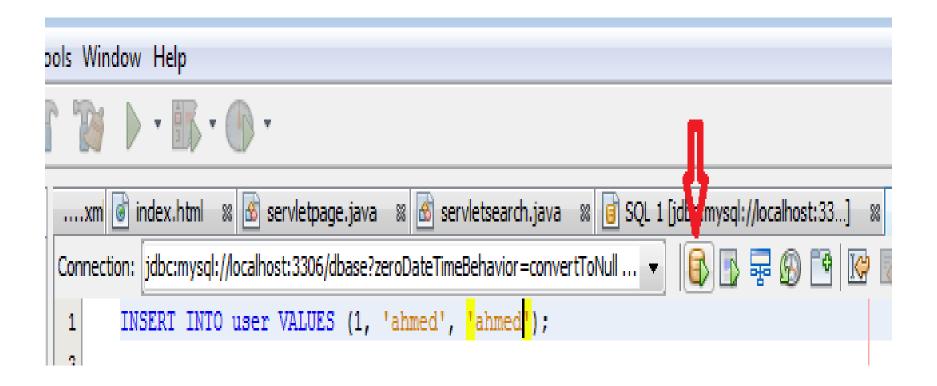




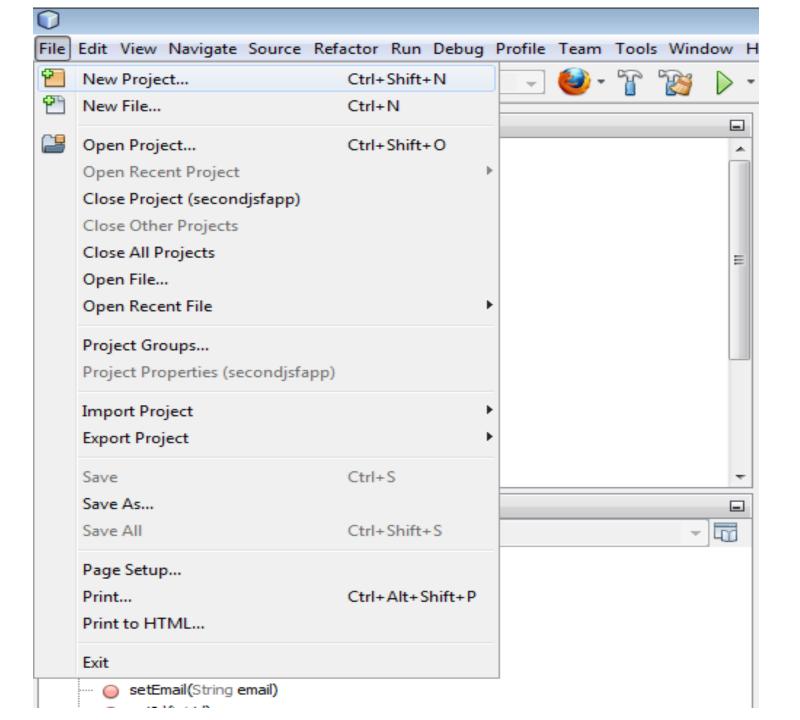
#### Insert data into table

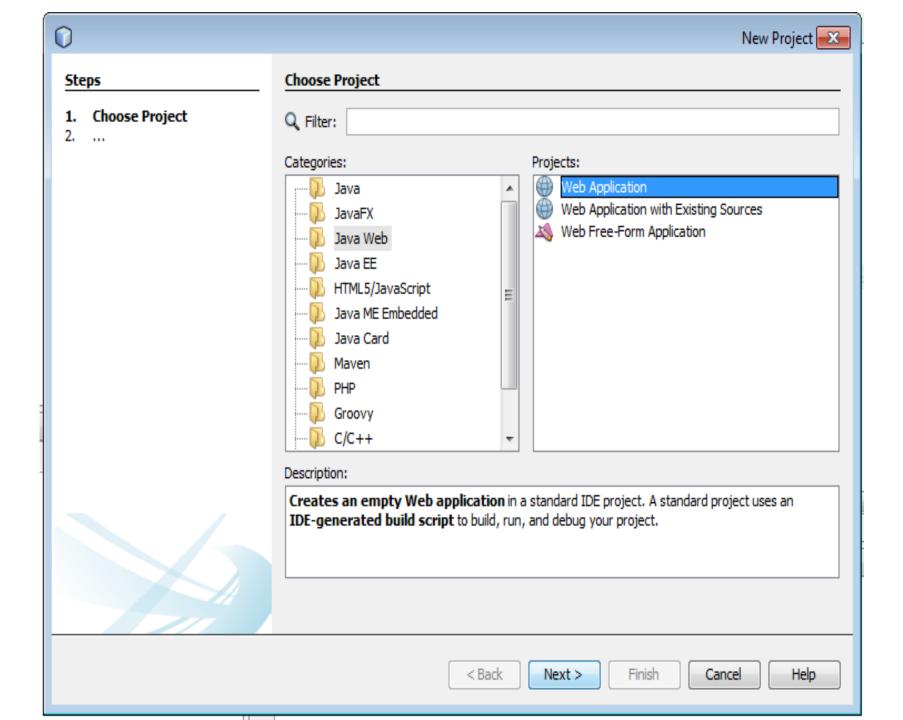


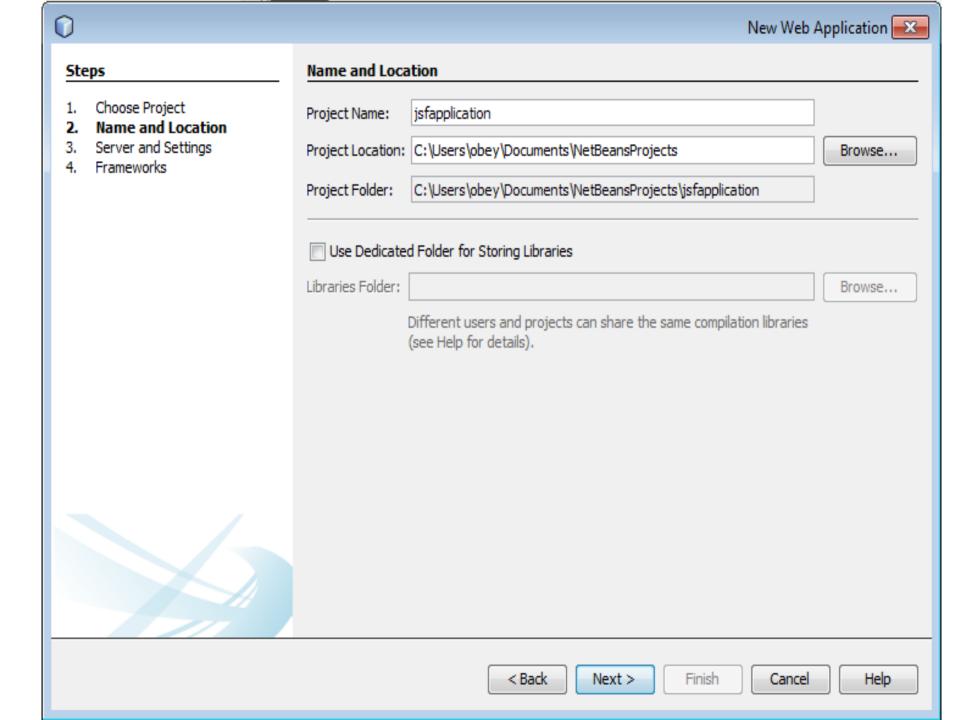
#### Write guery and press Run SQL

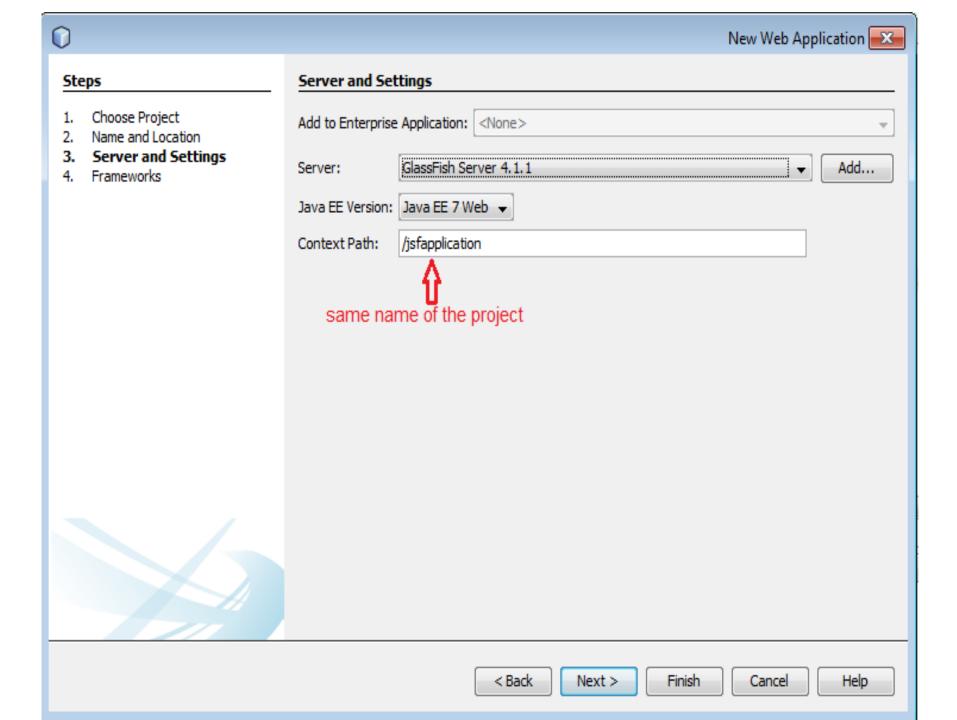


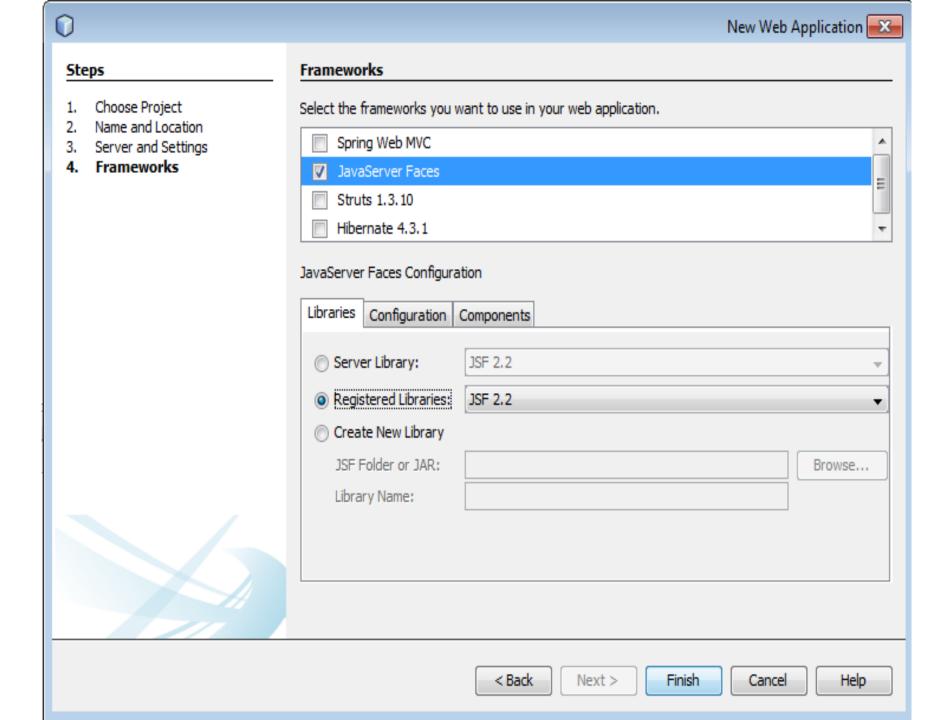
# J2EE application

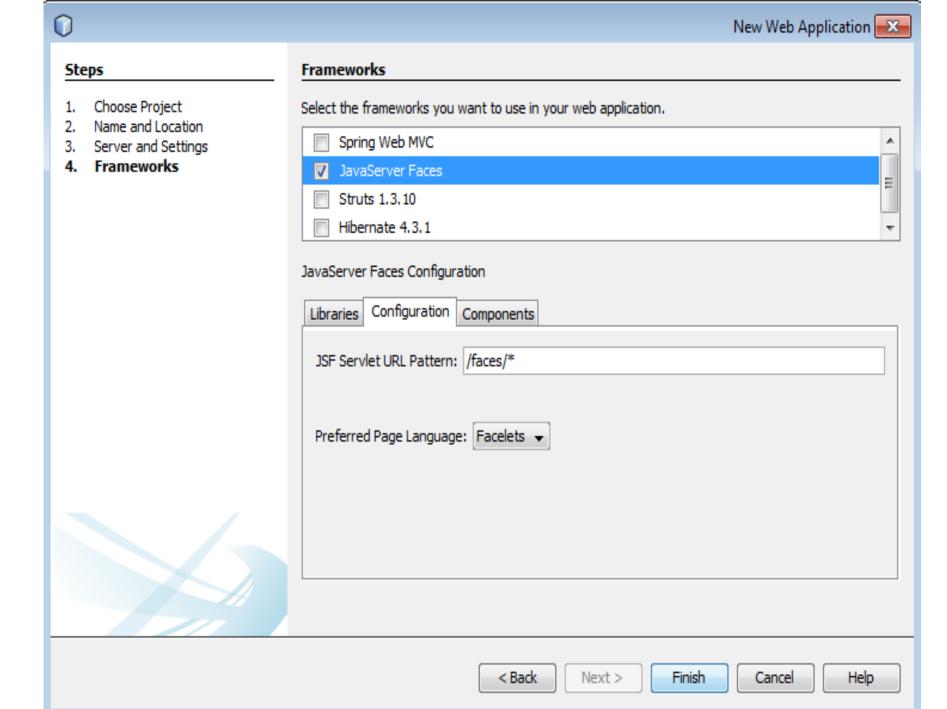




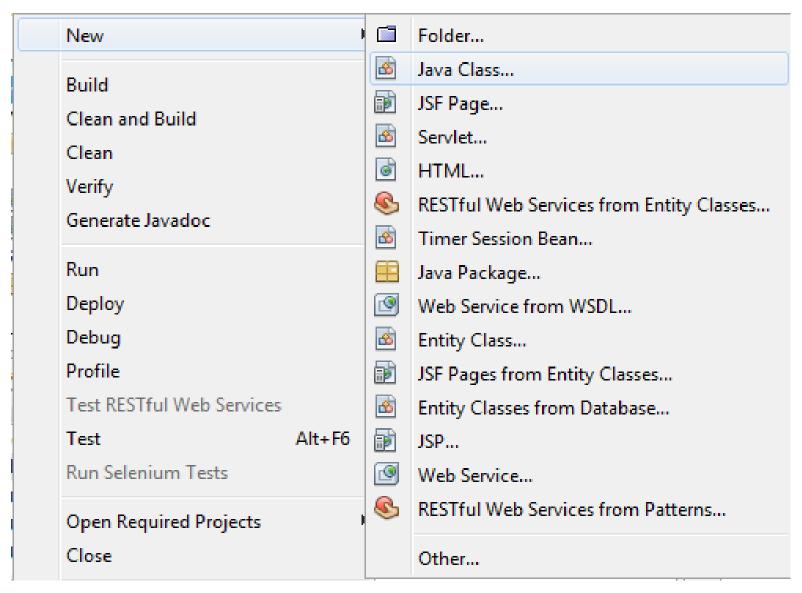


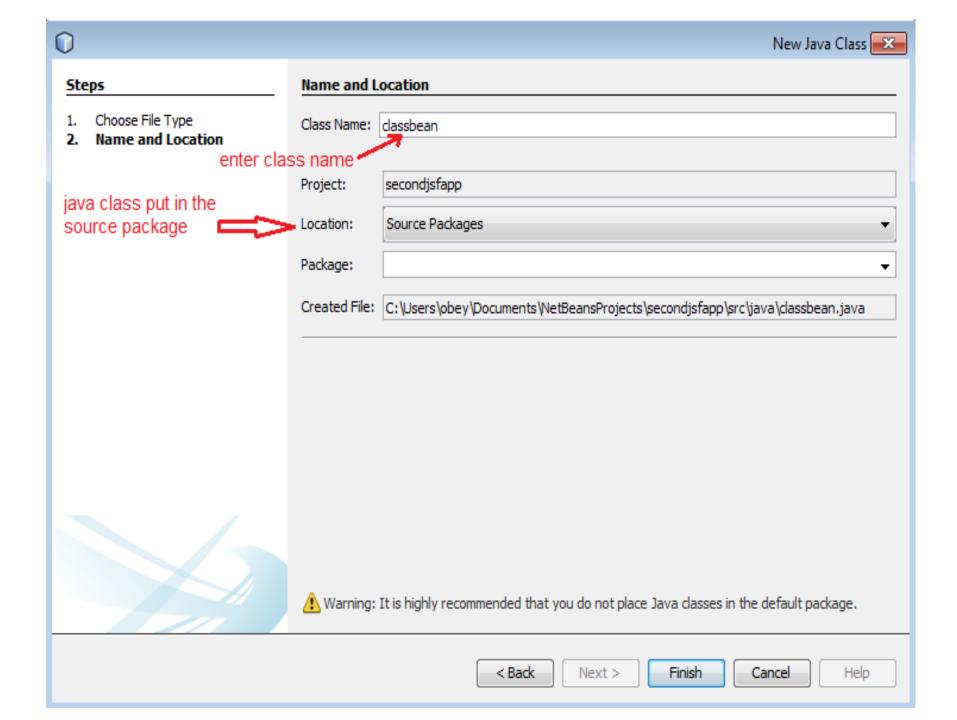




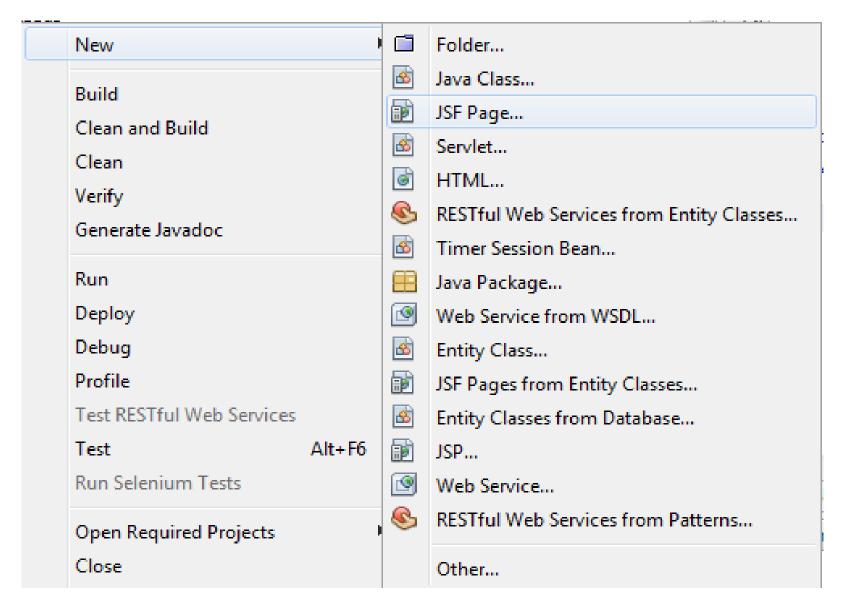


# Create Managed Bean





# Creat JSF page(.xhtml)





#### Steps

- Choose File Type
- Name and Location

xhtml page put in the web pages



File Name: newjsf

secondjsfapp Project:

Location:

Web Pages

Folder:

Browse....

Created File: C:\Users\obey\Documents\NetBeansProjects\secondjsfapp\web\newjsf.xhtml

Options:

Facelets

Description:

Facelets syntax

< Back

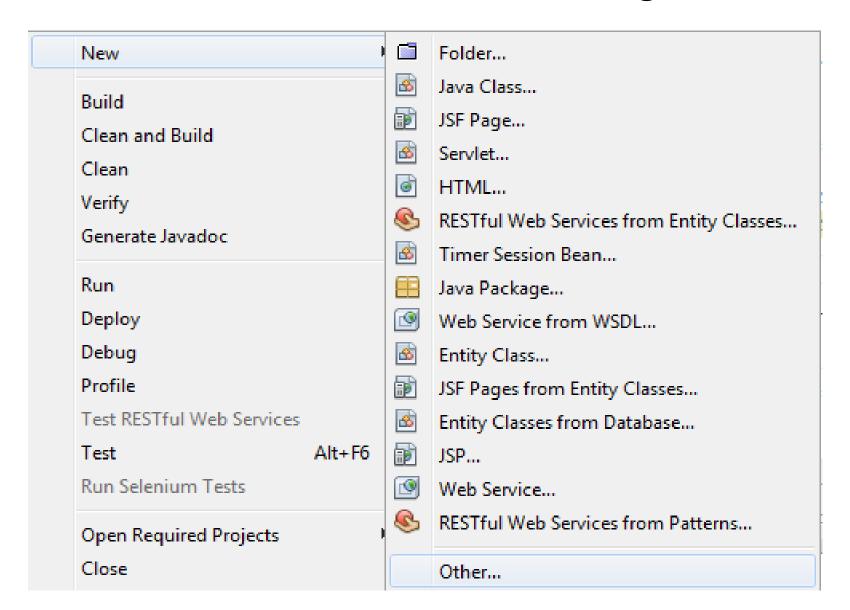
Next >

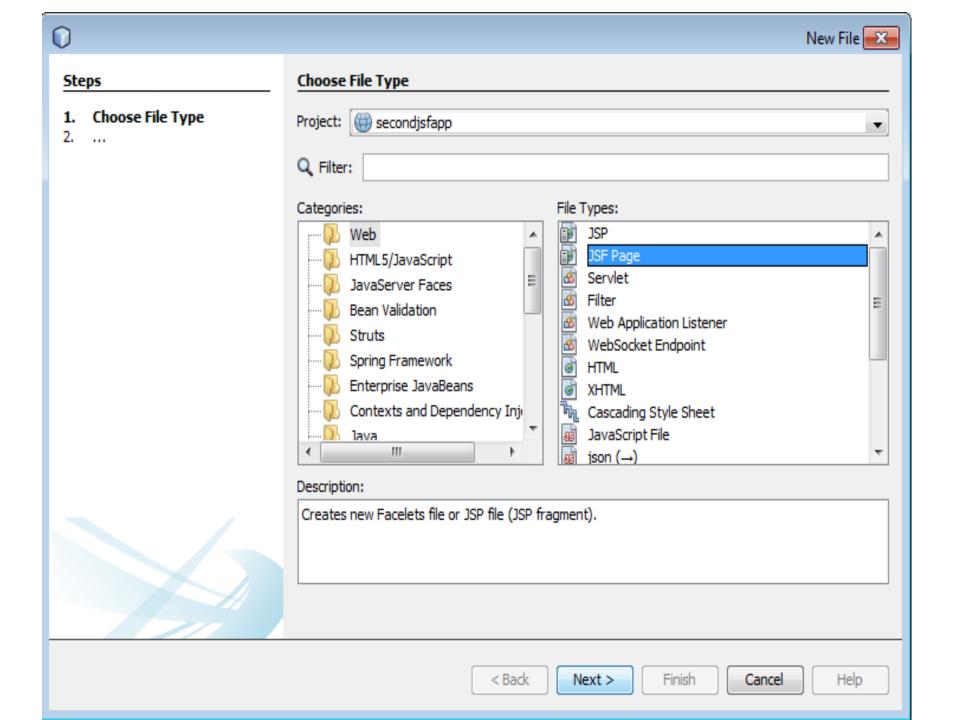
Finish.

Cancel

Help

# If JSF page dose not appear in the previous interface follow the following:







#### Steps

- Choose File Type
- Name and Location

xhtml page put in the web pages



File Name: newjsf

secondjsfapp Project:

Location:

Web Pages

Folder:

Browse....

Created File: C:\Users\obey\Documents\NetBeansProjects\secondjsfapp\web\newjsf.xhtml

Options:

Facelets

Description:

Facelets syntax

< Back

Next >

Finish.

Cancel

Help

# Deploy the application to GlassFish

 Right click the project and click Build. It builds the web application.

 Right click the project and click Deploy. It deploys the web application to GlassFish server.  Open the prowser and call welcome page on the server(index.html)

http://localhost:8080/hello/index.html

- /hello is the context path(slide 32)
- /index.html is welcome file(slide 37)

# **Good luck**