Practical no: 10

Problem Statement: Design, Develop & Deploy web.

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Class: T.E. Computer

Subject: Web Technology

Div: A

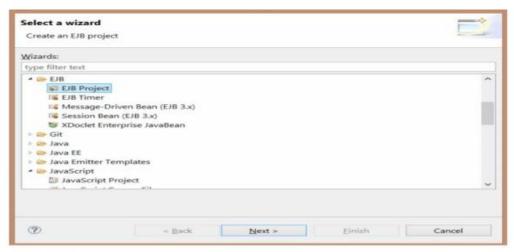
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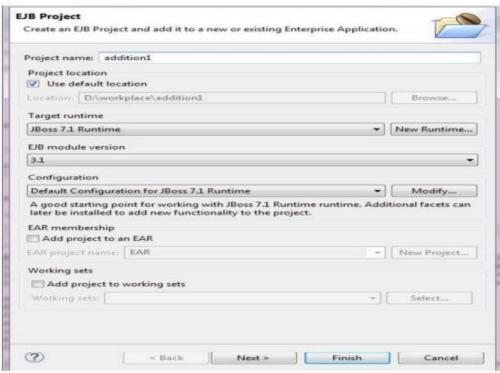
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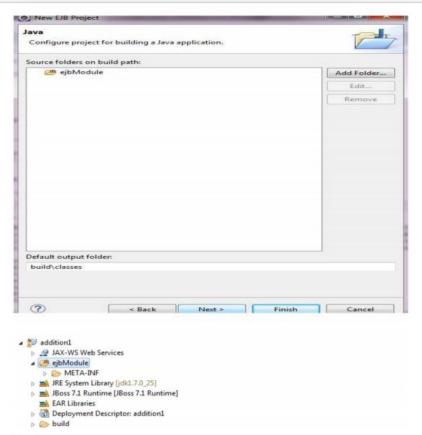
	Wt Practical 10 Aditi Dinesh Mway TK-comp Div: A Roll no: 02
	Title: Web application using EJB
	Objective: 1) Understanding basic concepts of Java beans. 3) Understand the basic concept of functionalities of JSP, HTML.
- 113 - 11 - 22105	3> Having the knowledge of JBOSS server to deploy web application:
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Problem Statement: Design, Develop & Deploy web application using EIB.
11.1.1	Software: 1> Ubuntu 64 bit / Windows 7
1271	3> ETB 3.0 State of the second of the secon
	Theory: J2FF application container contains the components that can by used by the clients for executing the business logic. These components are known as
	Enterprise Java Beans. (EJB). J2EE platform has component based architecture to provide multi-tired, distributed and highly transcutions features to enterprise level applications.
	Ests mainly contains the business logic and business data. Ests component is an Ests class. It is a java class written by Ests developer 4 this class implements
e had self	business logic. ETB 3.0 is being a large shift from EJB26 and makes development of ETB based applications relatively easy.

*	Features of EJBs:
1>	Client Communication: The Client, which is often a user
1	interface, must be able to call the methods of
	objects on the application server via agreed-upon
	protocols.
- 21	State Management: Some operations, for ex. when
	updating data, must occur as a unit of work If
21	one update fails, they all should fail.
37	Database Connection Management: An application
	server must connect to a database, often using
()	Pools of db connections for optimizing resources. User Aunthetication & Role-Based Aunthentication: - Users
גר	User Aunthetication & Role-Based Runthentication: - Users
	of an application must often log in for security
100	purposes.
2>	Application Server Administration - Application servers
	must be administered For ex. they need to be
	manitored and tuned.
	2 19 30 1
	Types of Enterprise Java Geons (EJB):
71	1. Session Beans.
	2. Entity Beans
	3- Message driven Beans
3 70	Little Donal description and emiliate trief
**	Stateless EJB:
	1. Normally data members are not put in stateless
	session bean.
	2. Stateless beans are pooled.
	3. No effort for keeping client specific data.
114.1	3. No Activation / Passivation in stateless session bean
12.0	To these because it is the right of early right
	VALUE VENEZIONE

*	
	Julian .
	1. Data members that represent state are present in Stateful session bean.
1	2. Stateful beans are cached
	3. Setting the tag idle-timeout-seconds determines how long data is maintained in stateful session
	bean.
	4. Activation - Passivation used.
*	EJB Architectuce.
	1. The client is working on web browser.
	2. There is a database server that hosts a db, like
	Mysql Jorale.
	3. The J2FE server machine is running on an
	application server.
	4. The client interface is provided with Jsp servlet.
	The enterprise beans reside in the business tier
	providing to the client tier.
	5. The application server manages the relationships
	between the client and database mouhines.
*	Design Execution
	Oesign FJB project.
	. Start JBOSS and Deploy it on JBOSS server.
	3. Design html and jsp files with an extension of . htm
	and isp.
	Run the application in browser and get the result.
4	Test Cases:
	Manual Testing is used to check the application is

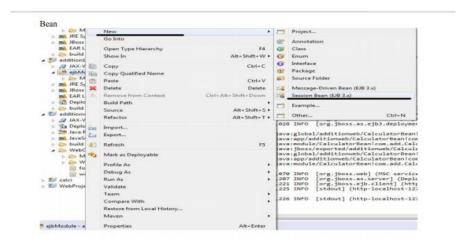


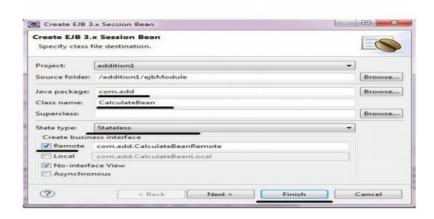




Step 2:

Now create Stateless session bean with its remote interface. Expand project -> expande ejbModule -> Right click Session Bean -> New -> Session





In ejbModule 2 java files are going to create after Finish button.

Write following code in CalculatorBean.java

Write Following code in CalculatorBeanRemote.java

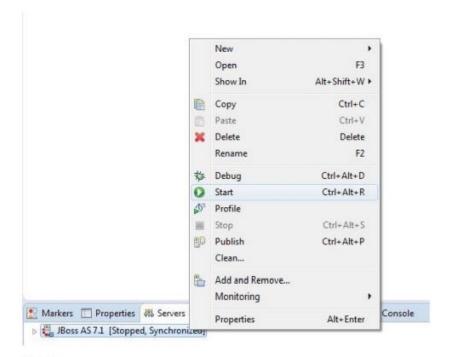
Step 3:

Deploying the project :

Now we need to deploy the our EJB "addition" on server. Follow the steps mentioned bellow to deploy this project on server.

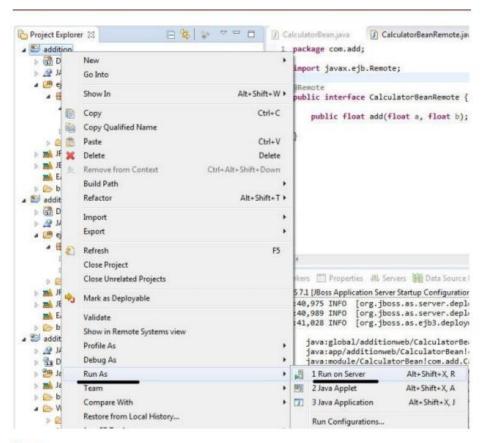
Strat the server

Right click on "JBoss 7.1 Runtime Server" from Servers view and click on Start.



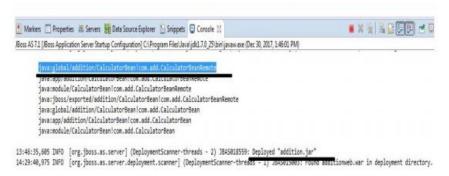
Step 4:

Now next step Go to Project-> addition -> right click -> run-> Run on server



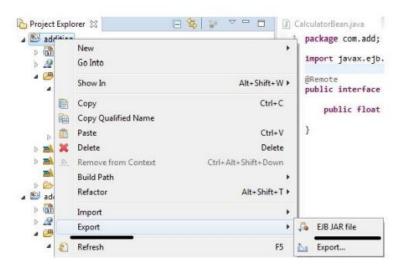
Step 5:

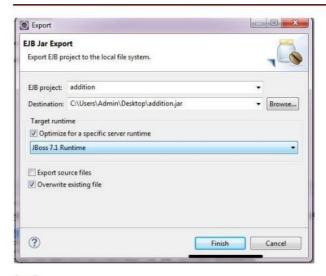
After running the program you can see following message on console



Step 6:

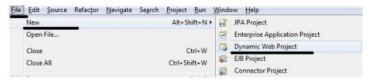
Once this jar file is deployed to server now export EJB jar file save it in desktop -> Finish.



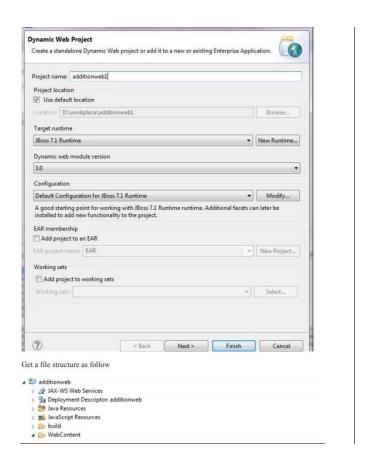


Step 7:

Now create another project

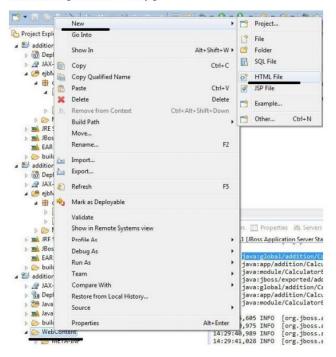


Write project name-> as additionweb -> finish



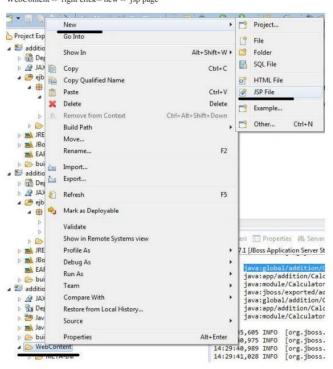
Step 8:

WebContent -> right click->new -> html page



Write file name -> form.html->Finish

Step 9: WebContent -> right click->new -> jsp page



Write file name -> webappadd.jsp->Finish

Get the file structure in project window as follows

```
■ ☑ additionweb

D JAX-WS Web Services

D Deployment Descriptor: additionweb

Java Resources

Java Resources

D Java Resources

D Java Resources

D Mary Java Resources

D META-INF

D META-INF

D META-INF

D META-INF

D Web-INF

D form.html

D webappadd.jsp
```

Write the following code in form.html

//form.html

Write following code in webappadd.jsp

Step 10

Copy the url from step 5 and add that url in wepappadd code as given above.

Step 11:

Running the application :

Right click on project addition-> run as -> run on server

