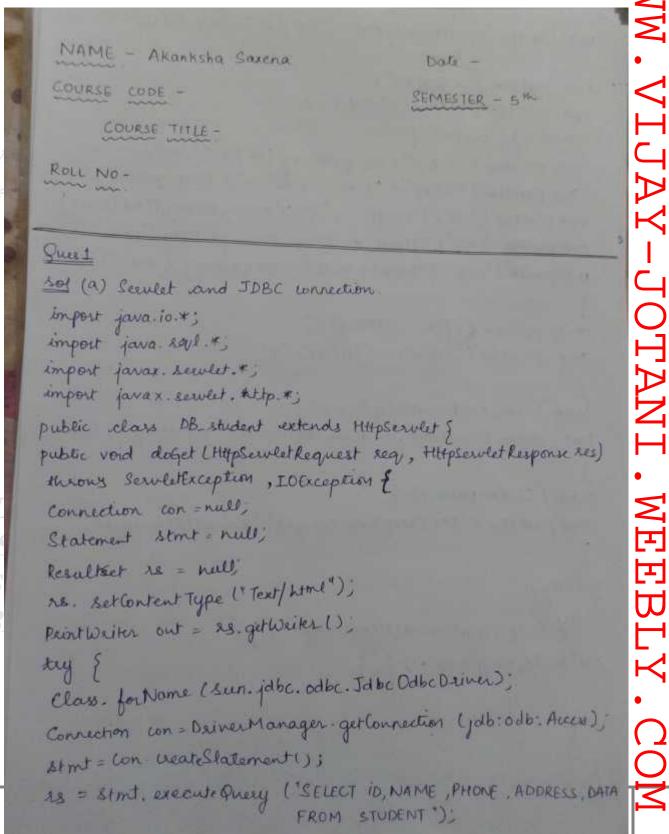
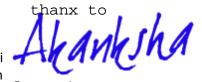
thanx to

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```

```
Out printen L'CHTML> CHEADS (TITLE> Student Details (TITLE)
              </HEAD> 1):
 out painter (" (BODY)");
 our punter ("<TABLE>"<TR>");
  while ( as next ()) }
  out printer 1 'CTO>"+ re getStrung (id") + "C\TD");
  out painten ("KTD" + "NAME" + & \TD" > + ses getStrong ("name")
 out pounter ("<TD>"+"ADDRESS"+ 2\TD>"+ ous getstring ("address"));
 out printer l'CTD) + "PHONE" + (TD)" + 75 getstring ("phon"));
 il ( " blab") printery such " ( TD)" + "ATA" + " ( TD)" + " printery ( "data"));
 out. println ((ITR> (/TABLE));
 out pointer ("</BODY></HTML>");
Catch ( Class Not Found Exception e) 5
out printer ("couldn't load the driver"te get Messagel));
Catch (SPLException e) }
 out-printer ('sql exception caught: 'te get Messagel));
finally &
 try & if (con!= null) (on. closel); }
catch (SQLException e1) } }
```



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```
(b) 5 JSP tags
  3. Declaration tag:
   You can declare any variable and you can write any
   method also this method is accessible in the JSP
   Between these < 1. ! 1. > you can put anything and
   that will placed into constitled servlet.
   public int get value () f int j=9; estuen j > }
   In ISP you can use the method like < 1/0= get Value () 1/0>
(2) Expression Tag
 Syntax of JSP scriptles are with <% = and ends with %>
 Between these you can put anything and that will be
 convected to the string and tenat will be obsplayed
In JSP if you want to display value of i.
 < 0/0 = 10/0 > or Date: <1.= newjava.uhi. Date() 4.>
3 Directive Tag:
 There are three main types of disectives:
a) page - peocessing information for this page
          < 10@ page import = "javo wil. + " 1.>
b) Include - files to be included, to include a header jsp
  found in the current directory
           < % @ include file = "header. jsp" %>
  Tag library - is a collection of custom lags that can be
               used by the page
           < 1.@ taglib wi = 'tag library URI prefix = 'taglitine
```



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```
(9) Striptlet tag: begins with 2% and ends with %, her
  can embed any amount of yours code in the ISP
             Jep engine places these code in - jepsewick)
  method
  <7. int (=6; i=1+9; %>
(5) Action Tags Truce main soles.
 a) enable the tise of scener side Janabeans
 b) transfer control between pages.
 c) browser independent support for applets
  < jsp: usebean id = "test" scope = "application" class = "com. tech test" )</p>
Ques2
(a) Insert a record in floatest table using JDBC and JSP
 < 1. page import = " java. & g,l. * " ot.>
 (HTML)
      (HEAD)
         (TITLE) Insection in Product Table ( | TITLE >
      </HEAD)
  (BODY)
       CHI) Inserting Data (/HI)
  <7. Connection con = null;
      Class. for Name ("Sun. jdbc.odbc. Jdbc Odbc Deiner");
     Connection con= Dainer Manager get Connection (jobe odbe Acces).
      Statement stmt = null;
      Stmt - con. create Statement ();
     String sayl = "INSERT INTO Broduct (id, name, quantity, Price)
                     VALUES (2, Shampoo", 36, 150);
      stmt. execute Update (sqle); %>
      (/BODY)
      (HTML)
```

(b)

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Solution 2 Types of JDBC drivers

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Type 1: JDBC-DDBC Bridge

They are JDBC-DDBC Bridge deivers. They delegals the work
of data access to DDBC API. DDBC is widely used by
developers to connect to a databases in a non-Java
envisconment. This kind of driver is generally most
appeapainte when automatic installation of a java
fechnology is not important.

Advantage: It acts as good approach for learning JDBC.
It may be useful for compones that already have ODBC.

drivers installed on each client machine—typically the
case for windows based m/c sunning peoductivity
appearations.

Disadvantages—It is not see table for large—Scale application.

They are the slowest of all. The performance of system may suffer because there is some overhead associated with the translation work to go from JDBC to ODBC. It doesn't support all features of java.

Type 2 - Native - API pastly java technology-enable driver. They mainly use native API for data access and provide Java wrapper classes to be able to invoked using JDBC drivers. 21 converts the calls to that a developer writes to the JDBC appeiration programming interface into calls that connect to the client machines application programs interface for a specific database such as IBM etc. this style of driver requires that some binary code be loaded on and elient machine 151



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Advantage - It has a better performance that that of Type 1, in part because the Type 2 deiner consciunt compiled Code that's optimised for the back-end database seevers operating system. Disadvantage For this, Uses needs to make seve the JDBC deiner of the database vender is loaded onto each client machine trust have compiled code for every operating system that the application will sun the on Bast use is for controlled environments internet Sus 3 (a) Telephone enquiry system import javax. ejb. * import Jana ani. Remote Exception; public interface Telephone extends Ejbobject & public String get klephone Number () theoris Remotetraption Public void setTelephoneNumber (Stages String TelephoneNumber) theous RemoteException. String getName() terrous Remotibriephon; public set Name (string name) theous Remotificaptions Public Integer get Official Extension () theo was Remot Exception public void Ret Official Bitersion () throws hemotytreption public Integer get Extention () throws Remote Exception, void setExtension (Integu extension) throng public Remote Exception.



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Telephone Home. Interface import janax. ejb. +; import java. Rmi. Remote Exception: public interface TelephoneHome extends I public Telephone weate (String Extension) theous Remote Exception, breat Exception, publo Telephone find Bypermanykey (String Extension) Historia Remote Exception, Finder Exception; Telephone Entity Bean import javax. ejb. *; import java nmi. Remote Exception; import yava squl *; public interface TelephonoBean extends EntityBean ¿ transient private EntityContext ejbContext; public String Telephone Number; public String Name. Official Extension: public public int Extention; public string getTelephoneNumber () } setuen TelephoneNumber ? public void set Telephone Number (String Telephone Numbe) this-TelephoneNumber = TelephoneNumber;

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```
Public String getName () }
   Setuen Name }
  Public void setNamel String Name) f
    this Name = Name if
  Public Integer get Telephone Extension () }
      actuen Extension, ?
 public void set Extension ( int TelephoneExtension);
     this Telephonetxtension = Telephonetxtension; }
 public Integer Extension () {
          Return extension; }
 Public Void setExtension Lint Extension) &
    this. Extension = Extension &
 public Telephone ejb Create (String telephone Number) }
    His . Telephone Number - Felephone Number;
    eeturn null: 7
 public & void ejbPostGreate ( Stury telephone Number)
 public void setEntitylonlext (Entitylonext ctx) {
 ejbContext = cti}
public void unsetEntity Contex () ?
   ejb Context = nulli }
public word ejbActivate() } ?
public void ejbPassivate() { }
public void ejbload () {
connection con;
```

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```
String Primarykey = (String) ejblontex). got Primarykey();
  CON - this get Connection ();
Statement stm = con weatestatement eselect * from Telephone
where Extension - " + primarykey);
 ResultSet 25 - stm. execute Query ();
 If ( es next())
 ( Telaphone Number = 18. getSteing ( Telephone Number )
   Name = nes getstring ('Name');
   Official Extension = seget Integer ("Official Number");
    Extension = rs. getExtension ("Extension"); }
 catch (SQLException sql)
     throw new EJBException (sql); }
 finally &
     (connection 1= rull)
     con. close(); }
```

A session bean is an EJB that is created by a client and usually exists only for the duration of a single client-server session. A session bean usually purposs operations such as calculations or database access on behalf of the client. While a sussion bean may be transactional, it is not secoverable if a system exact occurs. Session bean objects can be stateless of they can maintain a consessable state across methods and transaction



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If a Lession bean maintains a state, the ESB container manages this state if the object must be removed from memory. However, persistent data must be maintained by the session bean object steely The tools for a container generate additional classes for a session bean at deployment time These tools obtain information from the ETB architecture by examining its classes and interfaces this impormation is unlisted to generate two classes dynamically that implement the home and semote interfaces of the bean These consciner generates a serializable Handie class as well which provides a way to identify a session been instance within a specific lifecycle. These classes can be implemented to perform concustomized operatized operations and functionally when mixed in with contain An entity bean is an object representation of persistent data maintained in a pumament data store such as a database. A preimary key identifies each instance of an entity bean. Entity beaus one transactional and recoverable in the event of a system wash. Entity Bean are representation of explicit data or Collection of data, such as a sow in a relationed databax builty bean methods perovide procedures for acting on the data representation of the bean bean is persistent and seemines as long as it data remains in the database.



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```
Yuu 4)
(a)
        <7 xml version = "1.0" ?>
< ? and version - "10" encoding - "150 - 8859-1" standalon="yes"?
 < - MCA result, xml ->
<1 - storing the student detail in xml document -->
 <! DOCTYPE ignou SYSTEM mca. old ">
  < student>
       < year o type = " first 1>
       < name>
        < frame > Anudeep </frame >
        (Inance) Nikkandi < I Inange >
         (Scanles) 007 (/scanles)
         ( Subjects > ( dat > 20 ( daa) ( daam > 98 ( ) daam >
         <maths > Discrete Maths (/maths) <mathsm> 95 (mathsm)
         < java> Peogramming in java (1 java> (pwam> 88 ( ) javam)
 < year type-"second">
        Zname >
        <frame> Akanksha </frame>
        (Iname) Saxena (I Iname)
        (Scentile), OBF ( Scentile)
        (seebjects) < cpusplus) Arogram in c (cplusplus) (on>91 (/cm)
        (Software) Software Engineering (1software) (sm) 95(1si
        (databast) Database Denelopment (database) dm> 96 (dm)
(/year) < rollno> 13510802015 (frollno>
(contents) IGNOV MCA award list for 1° and 2 year
           setidents (/content) (/ student) (11)
```

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```
mca, did tile
            $7 XML, were on 1.0' and emd = "internal"?>
            <! FLEMENT student (year + manhfordet, content*)>

    (1) Element year (name, scentze, subjects, rolling)>

            < ! ATTLIST year type CDATA # IMPLIED>
            <! Element name (frame, lname)>
            < [ Element frame (#PLDATA)>
             < / Element Iname (# PCDATA)>
             <[ Element scentae (#PCDATA)>

Element subjects (dad, daam, maths, jana, ephispeus, cm,

                                  mathsm, javam, software, sm, database in

<!Element daa (#PCDATA)>
           <[ Element daam (# PCDATA) >
           ( [ Element maths (# PCDATA)>
           <[ Element java (#PCDATA))
           < [ Clement mathsm(#PCDATA)>
           SETEMENT JOVAM (# PCDATA)>
          < ( Etement Columpus (# PCDATA))
HEL
          O Element cm (#PCDATA)
          <!Element software (#PCDATA)>
, CBS
          <! Clement &m (#PCDATA) >
INS
          CIElement dabase (#PCDATA)>
AIB
          ( [Clement dm (#PCDATA) >
          <[Element adlno (HPCDATA)>
          </Element content (#PCDATA)>
```



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(6) Solution: XML Entity Entity declarations allow you to associate a name with some other fragment of the document. That construct can be a chunk of rigular text, a chunk of the ducument type declaration or a reference to an external file containing either text or binary data. There are three varieties of entities in XML. 2 Internal entity - Internal enteries allow you to define shortcuts for frequently toped text or text that is expected to change, such as the existion of a document. External Entity - allow on XML document to refer as external file Parameter Entitles - can only occur in the document type declaration. It is identified by placing front of is name in the declaration. XML is botter than HTML because it offers Semantics, XML allows you to make the semantics of your data unbigons. It allows you to call a spade a (spade). On the other hand HTML descripes presentation and XML describes content. XML is armad towards being both human and machine leadable. XML does not contain any information indicating how the document should be rendered in a beowser. They fore XML factors data from presentations. The beauty of this feature is that the same data can be presented in a variety of ways without having to replicate any data.



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(9) Entity Beans actually represent the data in a database. It is not that Entity Beans repeaces JDSC API. These are two types of Entity Beans container Managed and Bean managed. In container managed entity Bean - whenever the instance of the bean is created the container automatically setner the data from DB/ Persistance storage and assigns to the object variables in bean for user to manipulate or use them - for this the developer needs to map the fields in the database to the variables in deployment descriptor files In Bean Managed Entity bean - The developer has to specifically mate connection, retrive values, assign them to the objects in the expload () which will be called by the container when it inetantiates bean object. Similarly in the ejbStore () the container saves the object values back the persistance storage. ejbload and ejbstore are callback methods and can be only invoked by the container. Apart from this, when you use Entity beans you don't need to worsy about database transaction handling destabase connection pooling etc. which are taken care by the eyb container But in case of JDBC you have to explicitly do the above features. The great thing about the entity beans of container managed, whenever the connection is failed during the transaction peocessing, the database consistancy is manterined automatically. The container writes the data stored at peresistant storage of the entity beams to the database again to provide the writes the data stored at data stored at persitent storage of the entity beans to the database again to prom

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(6) holution: Validating and non validating XML paiser, which enforces the DTD rules on the KML document, is known as the validating parter, whereas the XML document which agreeres DTD rules, is known as the non-validating paries. The non-validating poises checks that you know what you are doing. non-validating parter thecks only when it is wellformed, that you have matching start and end tags The validating passer validates your XML against your schemas. To check that you have got the proper datatypes, filled in all mendatory attributes etc A non validating passes checks if a document follows the XML syntax sules . It builds a true structure from the tags used in XML document and setuen an lator only when there is a peoblem with the syntax of the document. Non validating passers process a document faster because they do not have to check every element against a DTD. In other words, these passers check whether an XML document adher to the sules of well formed document. The Expat parser is an example of non validating parser A validating pareer check the syntax, builds the Tree structure, and compares the structure of the XML document with the staucture specified in the DTD associated with the document. In other woods, in addition to checking whether an XML document is well formed, validating pouser also theck whether the XML document adheres to the rules in the DTD

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Craes & (9) SSL Authentication in Java cliente (DISSE (Java Secure Socker Extension) and Web Logic JSSE is a set of packages that support and implement the SSL and TLS VI protocols, making those capabilities available. BEA Weblogic Seever provides Secure Sockets layer (SSL) supporte for encrypting data transmitted blow Web logic Server clients and selvers, Jana clients, helds browsers and other savers. Web logic Servers Jana Seaux Socket Extension (ISSE) implementation can be used by heblogic clients. Other ISSE implementations can be had for their client - side cook outside the seever as well (4) Using JIDI Authentication Java Elients use the JNDI to pass on addennals to the helplogic Server . A Java client establishes a connection with heblogic server by getting a JNDI initial--context. The Java client then, uses the InitialContext to look up the resources it needs in the heablogic server INDI tree (W) SSL certificate Authentication Development Envisonment · SSL Authentication API's To implement Java cliente that use SSL authentication on heblogic Server, you use a combination of Java SDK application programming interfaces (API) and Weblogic API. SSL Client Application components SSL clients comprises following components at minimum. - build script (build . xme) - Java Client - Hostrame Verifier - HandShakeCompleted Listner - Teust Manager



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Example: SSL Socket Client sample tode The SSL Socket Client sample demonstrates how to use SSL sockets to go directly to the secure port to connect to a ISP served by an instance of Weblogic Server and display the results of that connection. It shows how to implement the following functions -· Instializing an SSLContext with client identity, a Hostname Verifice ISSE and a TrustManage ISSE · treating a keystore and retnewing the private key and certificate chain · Using an SSLSockerfactory · Using HTTPS ato connect to a JSP served by weblogic server. · Implementing the javax next sel, Handshake Completed -listner interface · treating a dummy implementation of the heblogic. security-SSL. Hostname Verifier ISSE class to verify that the server the example connects to is running on the destred host import java io file; amport java.io. *; import jours will Hashtable; import jang. security . * 3 import weblogic security. SSL. Hostnamoverifier JSSE; import mublogic, security. SSL SSL contexts import javar. net. ssl. ssisocket; import javax. net. sel. SSLSenion; import weblogic . Lecurity, SSL. SSLSocketFactory import weblogic security. SSL-FrustManager public class Schocketchent } public void SSLSocket (lient 1) } } Public state void main (String () wig) throws IOException ?



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```
if [(angv.length<2)](angv.length>3)) }
   Synemout pointly (+ usage: javaSSLSocket Client host integrat
                          < Hostramo Verifier JSSE > ");
  System out pointen l'example: java SSL socket Client Seure 2 weblings
                        com 4420
                                  MyHVClas Nams 7)
  System . exit (-1); 7
   tay ? System out printer ("In https://-rango[0]+" + auguli]?
   System out printly ("Creating the SSL tonders");
   SSLContext selltx = SelContext. get Instance (Thtps:)
   File Keystorefile - new File ("mykeystone");
   if (1 key Sterelile, exists ()) &
   System out, painten ( Keystone Error: mykeystone is not present in
                         this directory ?
 System. out. pointln (" To weak it sun-ant westernykeystore");
   System - exit (0)3
 System. out. println ("Initializing the SSLlowert worth client In"+
                       "identity ( East ficalis and privatikey), In "+
                     "Hos name Veri free JSSE, AND Nulled Trust Manager").
Key Store Ks = Keystore. get Instance ("jks"))
ks. load (new File Inputstream L'mytreystore"), null);
Privatekey key = (hivatikey) ks. get key (mykey", "test key" to CharAmay)
Conflicate [] cost Chain = Ks. get Conflicate Chain (mykey );
as lite. load local Identity (cert Chain, key)
Hostnamo Verifier ISSE h Verifier = null
 if (augr. length (3)
 hVerificia : new Nulled Hostname Verifier ();
 h Verifier = mare [Hostnam Verifier JSSE) Class. forName [angul2] now
                 TAGRACIAGO
Is Illx. Set Hostname Verifier ISSE ( h Verifier);
 Teest Manager JESE + Manager = New Nulled Teus Manager ()
  e=Oltx. set IrustManagu ISSE (+Manager);
```



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```
System our printer ("acating new sst socketfactory with selfential")
 SSLSocket Packy sklst - (SSLSocket Fackory) solch get Socket Fackory ISSE 1);
 System our painten ("teating and opening new solocket with
                       SSLSocket factory ");
 SSLSocket Assisock = (55 bocket) Assist. create Socket large (0), new Julye
                                         (asgu[1]). int value()
  System. ow. printer ("SSLSocket weated");
 SSLSock additional shakolompleted listner (new Mylistner ());
  our set steam out : silsock get adjut steam ();
 Strong reg = "GET lexamples WepApp/showbate.jspHTTP/1.do/n/2/n/
  out write ( seq-getBycus()):
 Imputsteam in = solsock, get Input stream ();
 byte berf[] = new byte (1024);
  try of while (true) {
       in any in read (buf)
      If (amt = 1) break;
       System out wants ( buf , 0, ant ); }
 catch (IOExcoplion c) } return; }
 selsock dose ();
 Seystem.out. println ("SSL Socked Closed");
3 (atch (Exceptione) { e. printestack (racel); }
```



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(b) Digital Cultification Digital only cally provide a mechanism to authentical and secure information on open networks Applications using this mechanism include secure email, secure web applications digital signing of software files, smart could authenticalism, and energy living file systems. Certificates are a key block for providing security sources within an IT Infrastment usually referred to a public key infrastructure (PKI). This PKI infrastructure will then enforce user authenticating hetwork encryption, data integrity and non-expudiction of origin for the data Constituents of a digital Curification The basic components within a digital certificate include: · the name of the user entity being certified · the public key of the user lennty · the name of the certification authority · a digital signature The certificate provides a binding link between a user/entity and a public key, so the centificates must use a well defined name space for the user fentity being identified. The Internation - al Tolecommunication Union X.509 apecification [3] provide a set of standards for the implementation of a public key Infrastructure - one being for the structure of a digital public key certificate. While many computer users and students of computing or information science are aware that digital certificates play a role in secure data exchange, the full nature and application of the associated technology is difficult to embrace One source for this difficulty is the range of component fechnologies that combine in order to afford data security.



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In order to clarify the relationship between central technology such as symmetric and asymmetric encuption, digital lightless . Ceepficate key stones, ledificate revocation lists, and the use of degital certificates in secure like transactions, we have developed a software tool that allows were to explore these aspects of data security. Ques 7 (9) Recovery Procedures When a trusted system fails , it is very important that the failure does not compromise the recurry policy requirements The recovery procedures also should not give any oppurousty for violation of the systems security policy. The system restart must be in a secure mode Startlep should be in the mountenance mode that permits access the only primleged users from privilged triminals. Fault-folerant System - In this system, the computer or network Continues to function even when a component fails. This system has the capability of detecting the fault and consecting the fault as well. Failedte System - here, the peogram execution is terminated and the system is protected from being compromised when a system failure occurs is detected. Failsoft or resilient - When a system failure occurs and is detected, selected not critical perocessing is terminated. The system continues to function in a graded mode failour - This refer to switching to a duplicate "hot" backup component in real time when a hardware or software failure occurs. Cold Start - This is required when a system failure occurs and the seconery procedures cannot return the system to a known, reliable, secure state.



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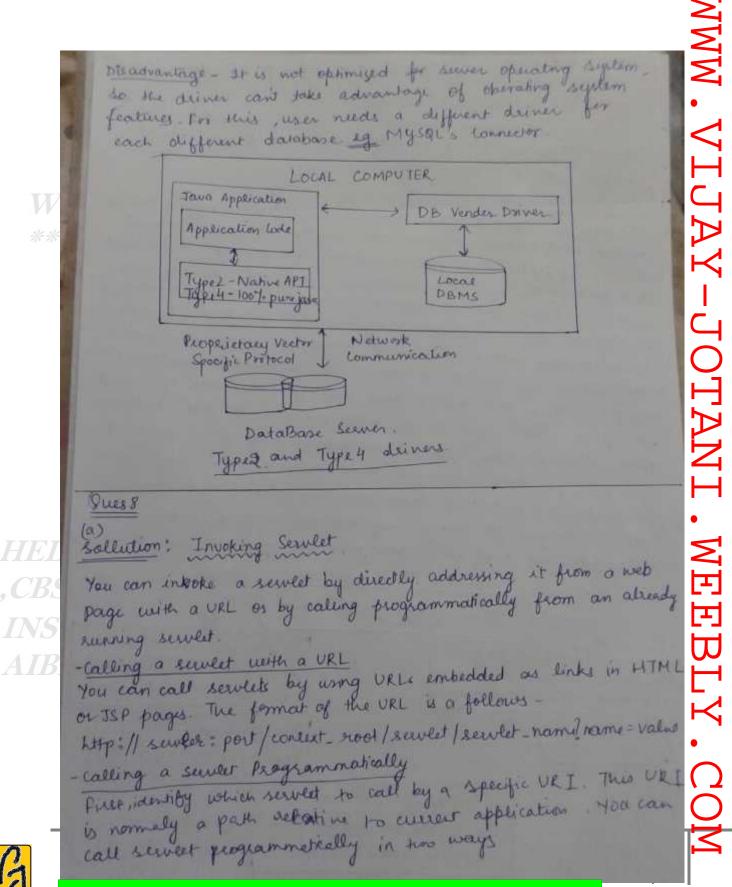
(b) Type 2 princes Native - API partly Java technology - enable driver They mainly use native API for data access and provide Java wrappen classes to be able to be invoked using IDBC drivers. It converts the calls that a developer writes to the JDBL application programming interface interface into calls that connect to the client machines application programmy Interface for a specific database such as IBM, stade de like, the bridge driver, this style of driver requires that code be loaded on each client machine. Advantage - It has a better performance than Type!, in part because the Type 2 driver contains compiled code that's optimised for book and database sewers's operating Disadvandage - for this, wer needs to make sure the JDBC driver of the database vendor is loaded onto each client machine of Oracle Call Interface (DCI) driver Type 4 Drivers also known as 100%. Pure Java. A native protocol fully java technology - enabled driver It is desect to database pure Java deiner. It converts JDBC technology calls into the network protocol used by different DBMS directly. Basically it converts JDBC calls into packet that are sent onen the network in the proprietary formest used by the specific database. Allows a direct call from the client machine to the database. Advantage - It again has better beformance than type and 2 and there is no need to install special software on client seever It can be downloaded dynamically



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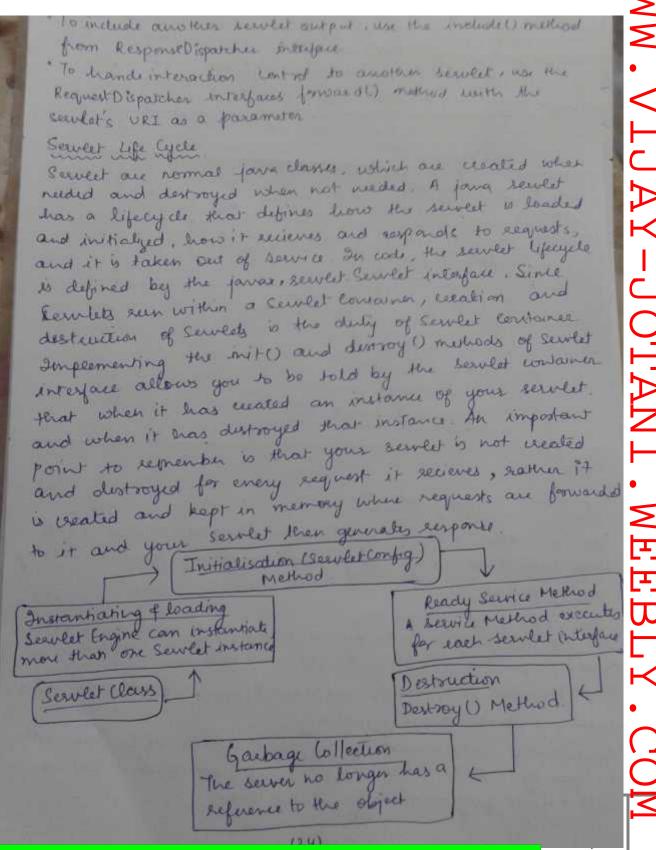


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There puncipal stages D Seculer Initialisation - This is the first stage, the serverts Constructor is called together with servest method init() this is called automatically once during the sessible execution tige cycle and can be used to place any one - off initialisation such as opening a connection to a database 3) Securet Execution - Once your Servet is initialised and its enit() method called, any request that the served Consumer acciones will be forwarded to your Servets serviced method HttpServlet class breakes this kervice () method into more useful doget() , do Post (), do Dolete(), do Options (), do Put () f doTrace() methods depending on the Type of HTTP request it secretes. So in order to generate reposse you should overnide the deget() is defest() method as per your requirement. 5) Serveet Destauction - when your application is stopped or Sciplet Container Shut down, your Sorvets destroy (method will be called to clean up any resources allocated during the Halisation and to shutdown gracefully. (b) Deployment discriptor

application or EJB application which is to be deployed to web or EJB container. The deployment descriptor should contain a standard structural information for all enterprise bears in an EJB application.

The deployment descriptor is an xml file that contains the Jhe deployment descriptor is an xml file that is required basic and most important information that is required basic and most important information that is required basic and most important information that is required basic and most important (Seculet). Without, this, to deploy a web application (Seculet). Without, this, to deploy a web application (Seculet) this seculet.



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