	Date
Expt	. No Page No
	Vision of the Justitute To become a renowned centre of execulence based on learning & work towards academi executional, cultural & social enrichment of the lives of individuals & communities
M23-	Mission of the Institute - Focus on evaluations of learning outcomes & nextinate students to inculcate sessinch aptitude by exeject based learning. - Identity, based on informed perception of Indian segional & global needs, areas of focus & provide platform to gain knowledge & solutions. Offer apportunities for interaction between academis industry. Develop human potential to its fullest extent do that intellectually capable.
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Mr. To impart outcome base	d education ton
emerging technologies in the	e field of CSF.
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14: 10 develop aptitude of	fullfilling social
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Expt. No. Page No. _ Course Outcomes cold Develop in depth understanding of swings programming by uniting user interfaceprograms COZ- Develop client side application involving JDBC,
RMI & socket Prigramming in Java.

COZ:- Develop sensen side applications involving

JZEE, serviets & JSP.

Expt.	Date
Expt.	No Page No3
	Do's
Í.	Please divitor at mobile shows
2.	Enter lab with complete promution
3,	Please durition of mobile phone. Enter lab with complete proportion. Check whether all perpherals are available.
	at your desktop.
4.	Intimate the lab incharge whenever you are
-	Uncomforbable.
5.	Arrange all devices.
6.	Presponly shut down the system.
7.	keep bag outside the lab.
8.	Enter lab on schedule time.
	Maintain decorum of lab.
	Get your external device checked by lab
	in charge.
Page 1	
	Donite
	to be the set to the state of the
T.	No one is allowed to bring storage devices
2.	Don't mis handle the system.
3.	Don't leave the system on standing for long t
	Don't bring any external device.
	Don't make noise in lab.
	Don't bring mobile in the lab.
	Don't enter Lab without permission.
	Don't litter in lab.
9:1	Don't delete or make any modification in system
	tiles.
10.	Don't gat inside the lab.

	Date
Exp	1. No Page No
	Experiment -1
	1 (A)
•	Aim: - To execute a JAVA applet that prints a string "Hello World" on the screen.
	An applet is a small Java Pergeam that kuns braide a beet browser or an applet viewer. Applets are primarily used to create aynamic & interactive used applications. Yunlike standalone applications, applets do not have a main method.
	Affe Cycle of Applet: du applet's life cycle is managed by browner or the applet viewer & consist of the following methods. i) init: > called when applet is first backed.
	civetant():- -> called after init() & inverted whenever the applet is started.
+ +	citis paint (Guaphics 9):- This method is called to draw the applet's output It is called everytime the applet

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Expt. No	Page No. 8
Program (iode:-
4	
import ja	va.applet. *:
import ja	va.applet.*;
public clo	us Applet Demo extends Applet &
pub	die void paint (graphics g)
\$	and the fact of tabletics of
3 9.0	Haustring ("Hello Applet", 100, 300);
11 < applet	code = "Applet Demo. class" width = 600
height:	600 >
height=	+>
- 3	
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118) dim: Jo create a Java appet to print diffe shapes on screen. Cregism Code importjava. applet.*; import java. auxt.*; public class AppletDemo extends Applet? public void paint (Graphics 9) g. Setcolor (color. red); g. drawstring ("Welcome", 50,50); g. drawstring ("Welcome", 50,50); g. drawstring (20,30,20,300); g. draws Rect (70,100,30,30); g. draws Cool (70,200,30,30); g. drawstring (color.pink); g. fill aval (170,200,30,30,30,30,270); g. fill Arc (270,150,30,30,30,30,270); g. fill Arc (270,150,30,30,30,30,270); l. cappet cool = "AppletDemo.class" windth = 600, height = 300 > 11 cappet >	_	Date
dim:- Jo create a Java appet to pulnt differ whopes on screen. Cragam Code import java applet.*; import java auxt.*; public class AppletDemo extends Applet & public void point (Graphics g) g. Setcolor (color. red); g. drawstring ("Welcome", 50,50); g. drawstring ("Welcome", 50,50); g. drawstring (20,30,20,300); g. drawstring (70,100,30,30); g. fill Rect (170,100,30,30); g. drawstring (color.pink); g. fill Oval (170,200,30,30,30); g. drawstring (270,250,30,30,30,270); g. fill Arc (270,150,30,30,0180); 11 cappet coole = "AppletDemo.class" windth =600, height = 300>	×	st. No Page No
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g. Setcolor (color. red); g. deranostring ("Welcome", 50, 50); g. deranostring ("Welcome", 50, 50); g. deranostring (20, 30, 20, 300); g. deranostring (20, 30, 30, 30); g. deranostring (20, 30, 30, 30); g. deranostring (20, 30, 30, 30); g. deranostring (20, 200, 30, 30); g. deranostring (20, 200, 30, 30); g. deranostring (20, 200, 30, 30, 30, 270); g. deranostring (20, 250, 30, 30, 30, 270); g. fill arc (270, 150, 30, 30, 30, 980); 3 11 capplet cool = "Applet Demo. class" width = 600, height = 300 >		pu buc day Appletormo extends Applet !
g. drawlise (20,30, 20,300); g. draw Rect (70, 100, 30,30); g. fillRect (170, 100, 30,30); g. draw Oval (70, 200, 30,30); g. draw Oval (70, 200, 30,30); g. fill Oval (170, 200, 30,30); g. draw Arc (30, 250, 30,30,30,270); g. fill Arc (270, 150,30,30,0180); 3 11 capplet code = "Applet Demo. class" width = 600, height = 300>		public void paint (Graphics g)
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g. draw fect (70, 100, 30, 30); g. fillfect (170, 100, 30, 30); g. draw Oval (70, 200, 30, 30); g. setcolor (color.pink); g. fill Oval (170, 200, 30, 30); g. draw Arc (30, 250, 30, 30, 30, 270); g. fill Arc (270, 150, 30, 30, 980); 3 11 capplet Cooll = "Applet Demo. class" windth = 600, height = 300 >		g. deravostring ("Welcome", 50, 50);
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g. draw aval (70, 200, 30, 30); g. betcolor (color.pink); g. fill aval (170, 200, 30, 30); g. draw Arc (30, 250, 30, 30, 30, 270); g. fill Arc (270, 150, 30, 30, 980); 3 11 captet coole = "Applet Demo. class" width = 600, height = 300 >		
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g. fill Arc (270, 150, 30, 30, 0180); 3		g. fill aval (170, 200, 30, 30);
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height = 300>		g. fill Arc (270, 150, 30, 30, 9,80);
11 spepiet>		11 cappet code = "Applet Demo. class" width = 600,
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Experiment - 2

Introduction:

ANT utands for Abstract window toolkit, It is an Application Programming interface (API) for creating Graphical User Interface (GUI) in Java It allows Java programmers to develop window based application.

Label, checkbox etc. used as objects inside a Java Program. Aut components are platform independent. The class Awt are provided by Java

Component class

The component class stands at the top of the AWT hierarchy, in an abstract class that contains all the properties of the component visible on the screen.

Container

The container is a component that contains other components like button, label, textfield etc.

It can be defined as a container that can be used to hold other components.

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2 AND THE RESERVE OF THE PARTY	Date
Expt. No	Page No9
Window:-	
A window can be defin	ed as a container that execute menu bay It meate
frame:-	
The frame is a subclass	of window. It can be define mponente like button, text
	108
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(A)	AT SHARE A AND IN THE
using frame.	NT program to create button
Wetpath > set on th = % so	th%; "C. \Pergramfiles \ idkpath
Program Code:-	are, C. I supramignes garpana
Transmitted .	
import java.aut. *;	
public class Button De	mo extends Frame f
Button Demo ()	
ş	
Button h=no	ew Button ("Check");
b. set Bounds ((30, 100, 80, 30);
add (b);	1377
set Size (400	400):
set visible (to	rue).
Setlayout (n	1111
7	
aublic Atatic	unid main (string ages [1)
B. How Dean	void main (string args []);
2	Doc Tien Outlan Democ,
2	
1	

2(1)

framo.

import java aux event *;

import java aut +;

Adapter

Frame f;

Window Claring Demo ()

f = new frame (); f. addwindow Listener (this);

f. cotsize (600,600);

f. setlayout (null); f. wet Visible (true):

public void window (Losing (Window Event we)

f.dispose();

public static void main (String angs [])

new Window Closing Demo ();

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Expt. No. _ 3 Page No. 10 Experiment -3 Introduction during in Java is lightweight GUI toolkit which has a wide variety of excite neighbor for building aptimization vaindow based application It is a part of JFC [Java foundation classes]. It is Jana It is platform independent unlike AWT & lightweight components. Container class-Any class which has other components in it called as a container class. For building qui application at least one container class is necessary. following are three types of container class -> Panel:-It is used to organize component on to a window. > frame: - A fully functional window with icon Dialogue: It is like a pop up window but not fully functional like Frame. JAN DURA

_	
	Aim: - Weite a suring program to create button
	Components.
	import wax . Justing * .
	import javax swing. *; public class JButtonDemo extends I Frame
	1 &
	JButton b = new JButton ("Click Here");
	b. det Bounds (50, 100, 95, 95);
	add(b);
	set size (600, 600);
	set layout (null);
	set visible (true);
	}
	public Static void main (string args[])
	2
	now JButton Demo (2;
-	
	Augus

Aim: - write during pringram to make an action button component impost java. aut. event. *; public class J Button Demo extends JFrame implements Action Listeney & J.text field tt; J Button Demoi JButton b = new JButton ("Click Here"); b. set bounds (50, 200, 150, 20); tf = new Itertfield (); tf. tet Bounds (50,50, 150, 120); b. add Action listener (this); add (b); add (tf); set size (400,400); set layout (null); set visible (true); public void action performed (Action Event e) { tf. Set text ("The button was clicked"); public static void main (String ange [] new J Button Demo (); 1 Teacher's Signature _

Exp	t No. 4 Page No. 15
	Introduction
1.	Inet Address: It is a class in Java that represent an IP address. It is used to identify a post (such a computer.) by its IP address to retreive IP address. We can use Just Address to retreive post or to perform DNS lookups. For eg. Just address get By Name ("host name" will return IP address especiate with host name.
2.	Server bocket:- It is a jana class used to create server that listens for incoming communication over a N/W. It establish communication channel for the server side client server exchitected
3.	Socket:- It is a class that represents a connection ble a client & servor over a notwork. It allows for sending & receiving data through 110 streams.
4.	Data input streams & Data Output streams:

EX	ot No. 4(a) Page No. 16
	Aim: - Write a program to find IP address of local remote host
	impost java net. *; public class IP Demo f public static void main (string args []): try { SuetAddress localhest = Snet Address get localhest system out. println ("IP address is: " + localhest get HostAddress ()); { Catch (Exception e): e.print stack traced(); }

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-	
	Aim: - To establish one way communication ble
	client & Jeruss
-	
	former dide
	import java.net. *;
	import java io *;
	Public class Mysenven Demo &
	public static void main (String args []) {
7	dry t
	Server socket SS = new Serversocket (5000)
	Data Input stream din = new Data Input stre
	(S. get Input Stream ();
	String Str = (String) din road UTF ();
	system out print(str);
	din. close ();
	ss. Close ();
	s.close();
-0	
-	catch (exception e)
	1
	e, print Stack Trace ();
	2
	2

Client side import jour net. *; import jour io . *; public class My Client Demo public static void main (String auge [7] truf dolket s = new socket ("localhost", 5000); Data Output stream 'dout = new Data Output Stream (s. gotoutput stream()); dout usite UTF ("Hello Comer"); dout. flush (); dout. Close (); s. clave(); catch (exception e) e. print stack Trace ();

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Aim: - Taxestablish two way communication blu client & acrupy in deryor side impost Java. io. *; impost java.net. *; impost java. Wil Scanner; public class Mysorwer Code & public static void main (string [] ange) { try (dervorsocket ss = new serversocket port: Socket 5 = 85 a co 5000); Sockets = ss. accept(); Data Input Stream din = new Duta Input Stream Data Outputstream = new Data Outputstream (s. get Output Stream ()); Scanner Scanner = new Scanner System & System. Out. println ("Client Connected"): String input; while (true) f String str = din read UTF(): System out println ("Received from went" +sty if ("end equals Ignore (ouso (str)) ; System out printer ("Client anded overation break; System.out.puinter ("Seewer");

Page No. 20 input = scanner neatline(); dout ussite UTF (input); dout.flush(); if ("end". equals/gnose case (input)) System. out. printen ("Server ended the convessation"). Ecatch (Exception e) { e. print Stack Trace (); 8ide Code import jana. net. k; impost java, lo. *; impost java. Util. Scanner; public class My cleent Demo ? public static void main (String [] args) } by (Socket socket = new socket (host: "locahost port: 5000) Data Butputitream dout = new Data butputitreum (Stocket.get OutputStream ()); Data Input Stream din = new Data Input Stream (socket, get inputition ()); Scanner scanner = new scanner Oystem in); AJURYR

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	Dalu
Ехр	LNO. 5 Page No. 22 Page No. 22
	Aim: - Case study on Model view controller (MK
	Theory:-
	What is MVC
7	Model view controller (MVC) framework is an
	auchitectual design pattern that depended
- 1	an application into three main hogical
	Components Model, View, & Controller.
7	Each component is built to handle apocific
	development aspects of applications. It isolate
	the blances logic & presentation layer
	from each other.
7	It was traditionally used for destrop quis
	It is also used for designing mobile apps. MVC was created by Trugue Reenskaug The
7	MIVE was deated by mygue reenstrugger
	main goal of this design parter was he someter
	main goal of this design pattern was to solve problems of users controlling a large & complex data set.
	Mya sec :
	When to use Mvc
0	whom you want to maintain separation of
	encounting of concours MVC holds to repostate
	the business logic (Model), the UI (View) &
	control flow (c).
2	For scale & scale ble & maintainable applications:
	Reperation of components makes it earies to scale a maintain.
	d maintain.

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Expt	No Page No
-	For wood applications that requires testability of each individual component & rouges bility of code.
(For applications with multiple views of some data: The mode is Independent of view, the same data can be displayed in different ways without dupicating.
	Types of MVC
0	The controller receives input updates the model & the View is automatically updated when model's data changes.
2	Action Based MVC Most commonly used in web development frameworks like Django, Ruby, ASP. net MVC. Controller handles HTTP requests, manipulate the model & passes necessary data to view.
3	MVVM - Model-View - View Model Used in desktop & mobile applications, such as WFF & Angular Js. The ViewModel acts as abstract of view, containing UI Logic & binds model data

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1 Push Board MVC

Controller determines which view should be rendered "pushing data to view. Often used in Java frameworks like specing MVC

6) Pull Based MVC

View is responsible for pulling data from

6 HMVC

It organizes compoments in hierarchy. Each Mvc triad can act as a sub module of a farent module.

Advantages of MVC

- O Codes are easy to maintain
- 3 The MVC model component can be touted represently.
 3 It supports test driven development.
- (4) SEO friendly.

Disadvantages

Difficult to read , charge, test

heeful building small applications

Inefficiency of data accous in view

Incheased complexity.

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Exp	t No. 6 Page No. 25 Experiment-6
	Atm: - Case study on JDBC
	Theory
	133 + 11 TA CC C
-	JDBC standy loss Fin D to be so word with
->	IDBC stands for Java Database connectivity. It is an API provided by Gracle corporation
	to enable java application to interact with
	various types of databases.
->	JDBC allows developers to execute SQL
	statements, retrieve & manipulate datal
	manage databases connections in a secure fulficient manner.
->	It acts as a bridge between the Java Programmi
	language & a wide variety of databases
	such as Mysor, Postgresqu, Quacle, etc.
	When to use JDBC!
a	Data driven applications: JDBC provides a
	standard interface to interact with relational database, such as Mysol, Postgreson, Oracle,
	database, such as Mysol, Postgresor, Oracle,
	BQLite.
2	Custom soc execution: JDBC allows you to
	Cheate, retrieve, update, delete data using squ
	statements.
-	

to connect	to databases.
Tables Control of the	

- 4) Dynamic Web applications: In web applications
 that need to access databases, JDBC is used
 to establish the connection with database &
 retrieve data
- (3) Cross Platform postability: TDBC provides

 vendor neutral Api for database access,

 which you can switch blu different relational

 systems without changing much of your

 Java code.

Based on the basis of drivers

(1) JDBC ODBC Driver

- This driver uses ODBC API to Interact with the database. JDBC calls are translated into ODBC calls & then ODBC driver communicates with the database.
- Destrol Jova Driver

 Jui driver converts JDBC calls into database

 specific a calls using native hissaries provided

 by database vendor.
- 3 Network Pustocal Driver

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	database independent protocol, which is then bornarded to server that communicates with the database.
-	Pure Java Deriver This is 100% Java based driver that converts JDBC calls into database specific perotocol.
0	Advantages Prevides an standard API to connect to various relational databases.
0	It works accross all platforms that support Toura.
3	Offers full control over executing row sacquestes
	It supports transactions.
0	Disadvantages Requires a lot of ropolitive code for connections
3	Primarily work on relational databases.
3	Developous must explicitly handle connection, statements, & result sets; which can lead to resource leaks.

4 Without optimization JDBC can lead to performance toucher's Signature

Expt. No. _ Page No. 28 Aime Case study on Enterprise Java Beans Theory What is EJB > It is specification provided sun Microsystems
to develope secured, robust, scalable distributed applications - To get information about distributed applications. > To run EJB application, you need an application sexuer such as JBoss, Glassfish, Weblogic, Websphere > It performs life cycle management, security, transaction management & object pooling.

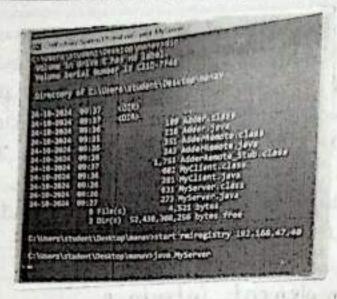
> It is also called as somet side component. When use Enterprise Java Bean - Application needs Remote access. - Application needs to be scalable. -> EJB application supports load balancing, clustering & fail over - Application needs encapsulated business logic. retrainement most betweened a nectorilgo Bt3 ~ & pensistent layer AURYD Toucher's Signature

Designed for large scale applications

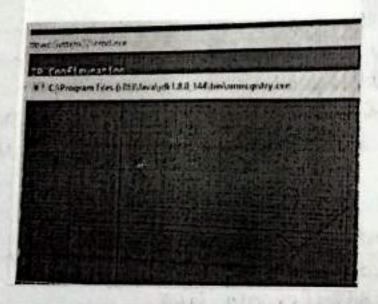
Page No. 30 Expt. No. Provides water based access control Disadvantages of EJB.
Configuration & setup can be complex De features like transaction management le remote calls can introduce performance slowdown. 3 EJBconcepts can be difficult for new developers. 1 gequires more resources as compared to

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	Dale
Lord NO.	Page No
skeleton Object: The skelet request from the stub object. It calls the desired method present on service. It forwards the parameters	ed on the real abject
the object to the method the to implement interfa the Defining a remote interfa Implementing the remote; Treating a stub & skelete thank the rmirgistery. Theate & execute the serve the servente of the serve the program.	ce ace. nterface. n objects.
Commands:- 1 javac Addenijava 2 javac Adden Remote java 3 javac Myserven java 4 javac Myslient java 5 Dir (4 of java, 4 class of 6 mic Adden Remote (Dir of 9 start miregistry 5000 2 java Myserven 2 java Myserven 2 java Myserven 2 java Myserven	java) ¿ stub, class added)
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24 140 %



```
#Indows 19 Configuration

Ethernet adapter Ethernet:

Connection-specific Des Suffix :
Link-local Thre Address : : fe80::cd80:2839:1fFa::dc82112

Default Edinory : : : 192.368.67.40

E:\prokharyjava MyClient

E:\prokharyjava MyClient
```

I. No 9	Date
I, NO	Page No.
Expeniminen	t -9
Arm- white a semulet prug World on browsen.	cam to display "Hello
down lets:-	
low lets are jour classes to implements the javax. Sex web app developers typically extend java, served to http.	wlet servict intourco.
Code:-	
import java. io. k;	
import javax. sowlet. *;	
import javax servet. hetp. *	;
	ends tittpsewlet & tpsewlet Response ruponse xcaption, To Exception
	ntType ("text (htme");
print writeout = out. printen (" <h1)< td=""><td>response get Writer (); "+"Heur World"+"<!--</td--></td></h1)<>	response get Writer (); "+"Heur World"+" </td
public void destroy) \$
2 Hoode	
}	
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10000	~				

Expt No. — Page No
b) write a service program user registration & an then control will be transfered to second page
< ntml>
<pre>chead> <title></title></pre>
<1/r>
< body>
<
Plying kname = request. getlaxameter ("kname");
string trame = request, get farameter (" home");
string uname = request. getfarameter ("uname"); string email = request. getfarameter ("email");
string pud = request, get Parameter ('pud");
string coud = request. get Parameter ("coud"); string add = request. get Parameter ("add");
out print ("First name is: "+fname+" ");
out print (" last name is "+ (mame + " < br>");
out. print ("User name is: "+ uname + " "); Out. print ("Emeil is: "+ email + " ");
- out print ("Password 1s: "+ and + " < br>"):
out print ("Confirm Password is: 'tcpwd+" out print ("Address is: "tadd + " < br>");
out print ("Address is: "tadd + " < by > ");
Sql>
< 1 body >
< html>
Augu

No	Page No. 37
Exportiment - 10	
Aim: - Write a JSP program &	er user login for base.
Static Database	
* fil-ename	
index. html: for username &	ogu word
process. jsp: for static databa	16
welcome jsp: welcome file	
undex.html <html> <head> <meta -="" 8"="" ;="" charact="UTF" http.equiv="Content - 7 /html"/> </head></html>	ype "Content = "to
<pre><body> <form !!souname:="" <input="" action="procoss.jsp" ms="" post"="" type="text</pre></td><td>thod = "> "name = "whame"</form></body></pre>	
<pre><form <input="" action="process.jsp" me="" password="" type="swortit" username:=""> </form> </pre>	od" name = "pass
<160dy>	
8	

1-	Date
EX	t No Page No38
=	
-	process. Jsp
-	<1.0 page content type = "text / neml" page encodie = "UTF - 8" 3/0>
	DOCTYPE html
_	<016 VIV.
_	string a = request getParameter ("uname 2)
	string a = request. getParameter ("uname"); string b = request. getParameter ("pas"); if (a.equals ("queue") ld b.equals ("queue"))
	response sond Redirect ("Welcome, jsp");
	%>
	Welcome.jsp < 1/2 @ page content Type = "text / html" page encoding = "UTF-8" 1/2
	DOCTYPE html
	# out printlen ("Welcome to world of jsp");
10	

		Date
Expt. No.		
7	Experiment-	-11
Aim	== (ase Study on J.	266
Jhei	an y	
Jove inde deu ent	pendent Java centr eloping, building & d exprise application. I	rise Edition is a platform ic environment used for eploying useb based t extends the Java fications for enterphise
1. Plate can 2 Multien 3. Com com 4 Ica Scale 5. secu	run on any platform. Hi-Tier Archilecture: I so promotes scalability poments like servets lability & Reliability: e & reliable enterprise vity: Includes built mentication, authoriza	JSPS& EJBS. Designed to handle lauge - level applications. in mechanism for

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JZEE Architecture

J2 EE foctows a multi-tierd Architecture

- t: Client Tier: Includes web browsey or standalone applications.
- 2. Web-Tien: Handles HTTP requests, often using servicts & J.SP.
- 3. Business Tier: Contains business Logic, often implemented with ETBs
- 4. Entemprise Information system Tier: Manages Interaction with databases & other backend systems.

Core JZEE Technologies:

- 1. Sow lets: Java program that run on a server f
- 2. Java Seswer Pages: Simplifies the development of dynamic web pages.
- 3. FJB? Somer side components that encapsulates business Logic.
- 4. JDBC:- API for connecting & executing queries
- 5 RMI:- Allows methods to be invoked on objects running and ifferent JVMs.

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	Advantages of JZEE	
土	dimplifies complex enterprise applications.	
2.	Premales modulage design, making applications easier to maintain.	
3.	Provides a sephrat framework for building scalable & secure systems.	
4.	Alour developers to leverage remable components	

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