

Java Technologies

Practical List

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Lab#	Aim	#Hrs.
1	Study of NetBeans IDE. 1. A short note on Netbeans IDE.	2
2	Creating Java Applications using Netbeans IDE 1. Creating GUI based calculator using NetBeans IDE. 2. Creating student information application using NetBeans IDE. <ul style="list-style-type: none">• Create a GUI based Student form to gather student information• Save information in a file on submission of the form.	2
3	Working with JDBC. 1. Work with MySQL server through NetBeans IDE. Note: Use the tutorial from moodle to prepare this. 2. Creating a java application to fetch student information from database using JDBC. (Using Statement object) 3. Creating a java application to store student information in database using JDBC. (Using PreparedStatement object)	2
4	Working with Servlets 1. Write a servlet to display request headers. 2. Write a web application for login module which contains following components : <ul style="list-style-type: none">• Login.html• ValidateServlet• WelcomeServlet• LoginVerifier class	2
5	Working with JavaBean 1. Write a web application for simple arithmetic calculator containing following components <ul style="list-style-type: none">• Calc.html : which allows user to provide input.• CalcServlet : it takes user's input from the Calc.html and uses a java Bean Calculator to perform the calculation and provides result to user.• Calculator : a java bean which performs all calculation. 2. Create and Test BannerBean using NetBeans IDE	2

6	<p>Working with Servlet and ServletContextListener</p> <ol style="list-style-type: none"> 1. Write a web based java application which registers and displays the number of hits made by clients since that application has been started by container. (Note: assume that there is only one servlet in the application.) 2. Write a web based java application which allows user to download a file from the list of available files. Application has two components as follow: <ul style="list-style-type: none"> • FileList.html: It displays a list of files to the user to chose a file to be downloaded. • FileDownloadServlet: It takes the user's choice for a file to be downloaded and sends that file in response to the user. 	2
7	<p>Working with HttpSession and ServletRequestListener</p> <ol style="list-style-type: none"> 1. Write a java web application using HttpSession which allows only logged in user to access the other servlets of the application. <ul style="list-style-type: none"> • Write following components: Login.html, LoginVerifierServlet, FirstServlet, SecondServlet. • Login.html allows user to provide username and password and send them as request parameters to LoginVerifierServlet. • LoginVerifierServlet takes username and password from login.html and verifies it. If credentials are correct then it creates a session. It displays welcome message and links to FirstServlet and SecondServlet. • FirstServlet and SecondServlet display some random messages and can be accessed if user is logged in. 2. Write a web based java application which logs the request creation and its destruction. 	2
8	<p>Working with JSPs</p> <ol style="list-style-type: none"> 1. Write a web based java application containing a JSP which displays the total number of hits to that JSP since it has been last deployed. 2. Write a web based java application containing a scriptless JSP which takes temperature value in Fahrenheit from user and convert it to Celsius and display it to user. 3. Write a web based java application containing a scriptless JSP which performs the simple arithmetic calculation for given arguments and operator. Write your JSP code using jsp:useBean action and EL. 	2