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Subject (Subject code)	Semester - Branch	Lab/ Week	Batch		
			A		B
AJT (01CE0308)	3 - CSE	1 Lab			

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Lab	Program	CO	Date	Page No.	Marks	Faculty Sign
1.	Make a table in database using following schema: emp(id int primary key, name varchar(50), city varchar(50), age int) Write JDBC application for using: a) Statement object to get all employee records. b) PreparedStatement object to insert a record of an employee.	CO3				
2.	Create the emp table as given above and write JDBC application for using the object of CallableStatement to get city of entered employee id.	CO3, CO4				
3.	Create GUI of Registration Form using swing and Event Handling taking place including validating each field.	CO4				
4.	Create GUI using Swing which will interact with Database and insert the content in the database.	CO4				
5.	Using Servlets, create a login form and perform state management using HttpSession.Create an HTML page for Login purpose. Forward the user to profile servlet page if login is successful otherwise include the login page in the output. Use hard-coded strings to check the user login credentials.	CO2				
6.	Using Servlets, create a login form and perform state management using HttpSession by using database connectivity to check the user login credentials.	CO3				
7.	Perform exception handling in Servlets for a	CO2,				

	Login application using web.xml file. Also implement a class named ErrorHandlerServlet which will handle any exceptionsgenerated during the login process.	CO3				

8.	Perform exception handling using JSP.
	   a) Create a JSP page to get input as two numbers a, b from user.
	   b) Provide buttons for addition, subtraction, multiplication and division on thesame page.
	   c) Create a JSP pages for performing all the operations and displaying the result.
	Create an exception handling JSP page for handling any exceptions.
		CO1				

9.	Make use of the following types of Tags available in JSTL Taglibs as a part of JSP programs.
	   a) Core: c:out, c:set, c:remove, and c:import tags.
	   b) Function: fn:toLowerCase, fn:toUpperCase, fn:substring, and fn:replace tags.
		CO1, CO2				

10.	Make use of the following types of Tags available in JSTL Taglibs as a part of JSP programs.
	   a) Format: fmt:formatDate, fmt:parseDate and fmt:setTimeZone tags.
	   b) XML: x:parse, x:forEach and x:out tags.
		CO1, CO2				

11.	Implement Hibernate annotations.
	   a) Create an Employee class and map it to a table in the database by annotations
	   b) Perform the following operations on the Employee table
	      a. Adding a new employee
	      b. Deleting an existing employee
	Updating the salary of a given employee by 10%.
		CO3, CO5				

12.	Modify the above experiment by implementing the HQL for all the operations.	CO3, CO5				

13.	Create a Java application to make use of Dependency injection using Setter methods.	CO5				
14.	Create a Java application to make use of Dependency injection using Constructor.	CO5				

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