

Lab Planning

Subject: 3160707- Advanced Java Programming

objects. 3. Write a program that illustrates interface inheritance. Interface P is extended by P1 P2. Interface P12 inherits from both P1 and P2. Each interface declares one constant one method. Class B implements P12. Instantiate B and invoke each of its methods. Each method displays one of the constants. 4. Write a java program which increment the counter for each object created and class contain one dipslaycounter() method to display counter value. 5. The abstract vegetable class has three subclasses named Potato, Brinjal and Tomato Write a java program that demonstrates how to establish this class hierarchy. Declar one instance variable of type String that indicates the color of a vegetable. Create an display instances of these objects. Override the toString() method of object to return string with the name of vegetable and its color. Java Networking 2. 1. Write a TCP and UDP program for one-way communication. 2. Write a TCP and UDP program for chat application. H1. Write a TCP client and server program to do the following: client> java client localhost/IP Port <enter>Enter text: Welcome to Gujarat Technological UNIVERSI <enter> Response from server: ytisrevinu LACIGOLONHCEt TARAJUg TO EMOCLEW H2. Write a TCP Client-Server program to get the Date & Time details from Server on t Client request. H3. Write a client-server program using TCP or UDP where the client sends 10 numbers server responds with the numbers in sorted order. H4. Write a client server program which contains following functions: i. Connect ii. Create JDBC program which contains following functions: i. Connect iii. Insert Records into respective table iv. Update records of particular table of database v. Display records vi. Delete Records from table.</enter></enter>	Lab Practical					
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T 4. Invitio a program to macri attudent records to database using recorded Statement.		2.	Write a program to insert student records to database using Prepared Statement.			





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2. W	Vrite a JDBC program for Callable Statement to retrieve percentage of student from procedure {get percentage} based on student Enrollment number. Also create a procedure { get percentage } which will calculate students percentage from able Result (Enro_no, Name, Subject1, Subject2, Subject3) where Enr_no: IN Parameter and Percentage: OUT Parameter). Vrite a servlet program to implement Hit Counter. Servlet API Vrite a servlet program for
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5. 1. V	Vrite a servlet program for
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	 i. Registration Servlet to get the values from registration.html ii. Write a Login servlet. Take input username and password from html file login.html and authenticate the user. Write the web.xml.
i. i.	Vrite servlet which displayed following information of client. i. Client Browser ii. Client IP address ii. Client Port No v. Server Port No v. Local Port No vi. Method used by client for form submission ii. Query String name and values
Co	Design a form to input details of an employee and submit the data to a servlet. Write ode for servlet that will save the entered details as a new record in database table Employee with fields (EmpId, EName, Email, Age).
	Create login form and perform state management using Cookies, HttpSession and URL Rewriting.
	Vrite a Java Servlet to print BE Semester Mark sheet of entered enrolment number and emester no. by student using JDBC.
2. In	mplement Authentication filter using filter API.
	JSP
8. 1. V	Vrite line(s) of code in JSP for following. i. Session read and write ii. URL rewriting sending and retrieving parameter(s) iii. URL redirection iv. Print "hello world" as output v. Include the other JSP file statically vi. Expression to display date as output vii. Method of setting the JSP parameters to use in JSTL
	Vrite a login.jsp page to get the login information from user and authenticate user with he database with JSTL SQL tags.
	Vrite a servlet that redirect requests alternatively to JSP Pages named Odd and Even.









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	2.	Develop JSP page to display student information with subjects for particular semester from database.				
	Hibernate					
10.	1.	Develop program to get all students data from database using hibernate. Write necessary xml files.				
JSF and Spring MVC						
11.	1.	Design a web page that takes the Username from user and if it is a valid username prints "Welcome Username". Use JSF to implement.				
	2.	Write an application to keep record and retrieve record of student. The record includes student id, Enrollment number, semester, SPI. Use MVC architecture.				