

List of practical		
Sr.	Experiments	Hrs.
1.	<ol style="list-style-type: none"> 1. Write a Program to update, delete & select records 2. Write a Program to insert record using prepared statement 3. Write a program for CallableStatement statement with stored procedure returns OUT parameters 4. Write a program for get column properties from ResultSet using ResultSetMetaData 5. Write a Program to create database table using Java 	8
2	<ol style="list-style-type: none"> 1. Create Applet program for Login page. <div data-bbox="494 846 1091 1167" data-label="Image"> </div> 2. Create Applet program for calc. <div data-bbox="442 1249 1139 1538" data-label="Image"> </div> 3. Create Applet program for signup page. 4. Create Applet program for Job Application. 	10

5. Create Applet program for Student MarkSheet.

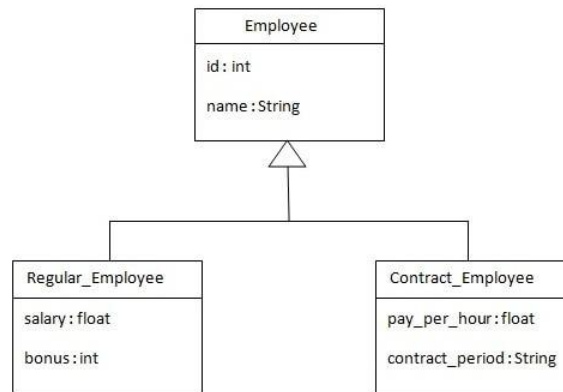
3

1. Create a HTML file which takes two text boxes like name and age then call servlet page and print the information on that page only.
2. Take one Integer variable counter and print the following Message “This Servlet has been accessed N times”. Also print RemoteAddress and RemoteHostName in the web browser.
3. Create a HTML file which takes two text boxes for User Name and Password. Check the validity in servlet file, if username and password is valid then print message, otherwise post back to the HTML page with appropriate error message.
4. Write a program to demonstrate include method of RequestDispatcher.
5. Write a program to demonstrate forward method of RequestDispatcher.
6. Create a Servlet file and do the connectivity with the MySQL Print all the records of the EMP table in tabular format in web browser.
7. Write a program for Hidden form field and URLRewriting.

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	<div>8. Write a Servlet program which adds the cookie and print the name and value of the cookie.</div> <div>9. Write a Servlet program which creates a session and print all the information related to session in the tabular format.</div>																																									
4	<div>1. Write a JSP program, which takes two integer variable and perform all the arithmetic operations on it; Values should be taken from textboxes and perform the operations after submitting the button.</div> <div>2. Write a JSP program to retrieve the records from the database and print it in the formatted form. (Create connection class for establish an connection)</div> <div>3. Write a JSP page which inserts the user data in to the database and finally print the inserted data in the browser. (Use above connection class)</div> <div>4. Write a JSP program which creates error page and handle exception with the use of the error page.</div> <div>5. Create a Web application for following purpose: (Use Connection class for connectivity)<div><div>a. Home Page+ Login Page (Admin,Employee)</div><div>b. Registration Page(New Employee Registration)</div><div>c. If admin login is there then show all employee’s detail</div><div>d. If particular employee is there then show his/ her detail only.</div><div>e. Otherwise show appropriate error page.</div><div>f. Table Structure:</div><div>EmpDetail:<table><tr><td>Column Name</td><td>Type</td><td>Size</td><td>Example</td></tr><tr><td>EmpId</td><td>Varchar</td><td>10</td><td>E001</td></tr><tr><td>EmpNm</td><td>Varchar</td><td>50</td><td>Sweta Doshi</td></tr><tr><td>Address</td><td>Varchar</td><td>200</td><td></td></tr><tr><td>Contact</td><td>Varchar</td><td>15</td><td></td></tr><tr><td>EmpType</td><td>Character</td><td>1</td><td>A->Admin E->Employee Default value is ‘E’</td></tr><tr><td>BasicSal</td><td>Number</td><td>10,2</td><td></td></tr><tr><td>DeptNo</td><td>Number</td><td>3</td><td>1->Chemistry</td></tr><tr><td></td><td></td><td></td><td></td></tr></table></div></div></div> <div>Department_Master:<table><tr><td>DeptNo</td><td>DeptName</td></tr><tr><td>1</td><td>Chemistry</td></tr></table></div>	Column Name	Type	Size	Example	EmpId	Varchar	10	E001	EmpNm	Varchar	50	Sweta Doshi	Address	Varchar	200		Contact	Varchar	15		EmpType	Character	1	A->Admin E->Employee Default value is ‘E’	BasicSal	Number	10,2		DeptNo	Number	3	1->Chemistry					DeptNo	DeptName	1	Chemistry	10
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		2	Botany	
		3	Physics	
		4	Bio-Technology	
		5	Industrial-Chemistry	
		6	Computer-Science	
5	1. Hibernate Example using XML for Employee (id, firstname, lastname, sal) 2. Hibernate Example using annotation for Student (id, firstname, lastname, grade) 3. Table Per Hierarchy Inheritance using xml and annotation			12
<div><div><div><div>Employee</div><div>id : int name : String</div></div><div><div>Regular_Employee</div><div>salary : float bonus : int</div></div><div><div>Contract_Employee</div><div>pay_per_hour : float contract_period : String</div></div></div></div> <div>4. Table Per ConcreteInheritance using xml and annotation</div> <div><div><div><div>Employee</div><div>id : int name : String</div></div><div><div>Regular_Employee</div><div>salary : float bonus : int</div></div><div><div>Contract_Employee</div><div>pay_per_hour : float contract_period : String</div></div></div></div> <div>5. Table Per SubclassInheritance using xml and annotation</div>				



6. Hibernate Collection (O/R Mapping) with Set/Map/Bag

Text books:

1. *Jim Keogh. (2007), The Complete Reference J2EE*, Tata McGraw Hill publishers; 2 edition
 - Naughton & Herbert Schildt. *JAVA 2: The Complete Reference*. McGraw Hill

Reference books:

- *Craig Walls. (2007), Spring in Action*, DreamTech press
- *Cameron McKenzie. (2008), Hibernate Made Easy*, hiberbook.com
- www.tutorialspoint.com
- www.javatpoint.com

Pedagogic tools:

- Chalk and Board
- Power point presentation
- Seminar
- Videos

Methods of Assessment & Tools:

Components of CIA: 30 marks

Sr. No.	Component	Content	Duration (if any)	Marks	Sub Total
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A	Test 1	1 st & 2 nd units	1 ^{1/2} hours	5 (Set for 30)	20
	Test 2	All 5 units	3 hours	15 (Set for 70)	
B	Assignment-1	-	-	5 (20 marks)	10
	Class activity	-	-	5 (20 marks)	
Grand Total					30
Assignment		<ul style="list-style-type: none"> • Short duration online course • Abstract and executive summary • Case study writing • Concept mapping • Student generated handbook • Essay writing & Similar activities 			
Class activity		<ul style="list-style-type: none"> • Reaction paper • Quiz • One-minute paper • Situation based question • Application card & Similar activities 			

Note: Any other assessment tools or methods can be adopted as per requirement of the course.