

LOVELY PROFESSIONAL UNIVERSITY

Academic Task No. 3

School: SCA

Faculty of: LFTS

Course Title: PROGRAMMING IN JAVA

Course Code:CAP615

Max. Marks: 30 [10 Marks each]

Date of Allotment: 26th April. 2022

Last Date of Submission: 01st May. 2022

Important Guidelines:

1. All questions in this Academic Task are compulsory.
2. Every attempted sheet/page should carry clear details of student such as Name, Registration number, Roll number, Question number and Page number. The page numbers should be written clearly on the bottom of every attempted sheet in a prescribed format as: for page 1; **Page 1 of 4**, for page 2; **Page 2 of 4**, for page **Page 3 of 4** and for page 4; **Page 4 of 4**, in case your assignment/document is of 4 pages.
3. After attempting the answer(s), student needs to take photograph of each of these answer sheets/pages and needs to convert the **jpeg** format images into a sequential single **pdf** format document (can be done with many free online available converters).
4. This PDF file should be uploaded onto the UMS interface on or before the last date of the submission.
5. Refrain from indulging into plagiarism as copy cases will be marked zero
6. For every program it is mandatory to give proper documentation.

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SET-1

Q1. How ResultSet and PreparedStatement are different? Explain the difference with the help of an example code.

Q2. Design a form to take different inputs from the user and store the data at the backend database.

Q3. How a connection oriented and connection less communication are different? Explain in detail.

SET-2

Q1. What is the importance of “Update” operation? Design a form to perform update operation based on the inputs taken from the user.

Q2. Which is the information a client must know about server before starting communication? Explain in detail.

Q3. Write a program to create a GUI App to check login name and password from database and attempts should not be more than 3 times.

SET-3

Q1. Write a program to create a following GUI application using database connectivity.

First Name	Last Name
<input type="text"/>	<input type="text"/>
Course	Subject
<input type="text"/>	<input type="text"/>
Year	Age
<input type="text"/>	<input type="text"/>
Gender	Birthday
<input type="text"/>	<input type="text"/>
Contact	Email
<input type="text"/>	<input type="text"/>

Submit

Add New

View Details

Q2. Which are various steps required to perform JDBC? Explain each step in detail.

Q3. What does `Class.forName()` method do? Which one will you prefer to use between `Statement` or `PreparedStatement`? Justify your answer with example.

SET-4

Q1. What are available drivers in JDBC? Write a program to combine data from more than one table in Java.

Q2. Write a program to perform client-server communication.

Q3. Write a program to perform the delete operation as per the input taken from the user by using the form layout.

SET-5

Q1. Write a program to fetch data from a database and to print it by using Java Form.

Q2. What are sockets? How are sockets represented in the Java programming language?

Q3. Write a program to create a following GUI application using database connectivity.

The screenshot shows a Java Swing window with a light gray background and a red title bar. It contains the following fields and buttons:

- Roll No:** A text field with the value "4" and a "Load Record" button to its right.
- Name:** A text field with the value "ratan jaiswal".
- Email:** A text field with the value "ratan@gmail.com".
- Course:** A text field with the value "java (JavaSE and JavaEE)".
- Fee:** A text field with the value "11000".
- Paid:** A text field with the value "9000".
- Due:** A text field with the value "2000".
- Address:** A text area with the value "G-13, Second Floor, Sector-3".
- City:** A text field with the value "Noida".
- State:** A text field with the value "UP".
- Country:** A text field with the value "India".
- Contact No:** A text field with the value "9990449935".
- Buttons:** "Update Student" and "back" buttons are located at the bottom right of the form.

SET-6

Q1. Write a program to create GUI App: Employee Registration page in which you have to take input like: Employee name, Password, Date of birth, Gender, Contact No, Address etc.

Q2. What is datagram? What are some key classes defined in the Java programming language to work with datagrams?

Q3. Write a program to create a following GUI application using database connectivity.

The screenshot shows a Java Swing window with a blue header bar and a light gray body. It contains the following fields and buttons:

- First Name:** A text field.
- Last Name:** A text field.
- Course:** A text field.
- Subject:** A text field.
- Year:** A text field.
- Age:** A text field.
- Gender:** A text field.
- Birthday:** A text field.
- Contact:** A text field.
- Email:** A text field.
- Buttons:** "Add New", "View Details", and "Submit" buttons are located on the right side of the form.

SET-7

Q1. Design a form to take different inputs from the user and store the data at the backend database.

Q2. Which is the information a client must know about server before starting communication? Explain in detail.

Q3. Write a program to create a GUI App to check login name and password from database and attempts should not be more than 3 times.

SET-8

Q1. What is the importance of using 'update' operation? Design a form to update the data on the backend database as per the inputs received from the user.

Q2. What does Class.forName() method do? Which one will you will prefer to use between Statement or PreparedStatement? Justify your answer with example.

Q3. Write a program to perform client-server communication.

SET-9

Q1. What are available drivers in JDBC? Write a program to combine data from more than one table in Java.

Q2. What does Class.forName() method do? Which one will you will prefer to use between Statement or PreparedStatement? Justify your answer with example.

Q3. Which is the information a client must know about server before starting communication? Explain in detail..

SET - 10

Q1. How ResultSet and PreparedStatement are different? Explain the difference with the help of an example code.

Q2. How a connection oriented and connection less communication are different? Explain in detail.

Q3. Using JDBC, fetch data from multiple tables and print it on a single form.