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LOVELY PROFESSIONAL UNIVERSITY

Academic Task No. 3

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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

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Q1. How ResultSet and PreparedStatemet 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.

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SET-2

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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.

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

Q3. What does Class.forName() method do? Which one will you will prefer to use between Statement or PreparedStatement? Justify your answer with example.
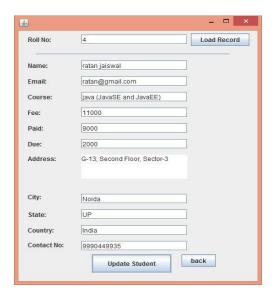
SET-4

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.
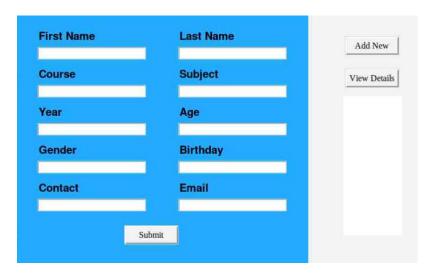
SET-5

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.

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.

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 PreparedStatemet 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.