**JDBC**

1. **Design a Java program to create a simple employee management system using JDBC and MySQL Connector/J. The program should allow users to perform the following operations**:
   1. **Add a new employee: The user can enter details like employee ID, name, department, and salary, and the program should add the employee to the database.**
   2. **Update employee details: The user can update the name, department, or salary of an existing employee based on their employee ID.**
   3. **Delete an employee: The user can delete an employee from the database based on their employee ID.**
   4. **Display all employees: The program should retrieve and display a list of all employees and their details from the database.**
   5. **Requirements:**
      1. **Use JDBC and MySQL Connector/J to connect to the MySQL database and perform CRUD (Create, Read, Update, Delete) operations.**
      2. **Implement exception handling to handle possible errors during database interactions.**
      3. **Provide a user-friendly console interface for the user to interact with the employee management system.**
      4. **Cover Java topics such as classes, methods, user input and output (I/O), and exception handling.**
   6. **Note: Before running the program, make sure you have MySQL installed, create a database named "employee\_management," and a table named "employees" with columns: "id" (INT, PRIMARY KEY), "name" (VARCHAR), "department" (VARCHAR), and "salary" (DOUBLE).**