**Assignment No. 6**

**GRN: 12310120**

**Name of the Student: Atharva Salitri**

**Roll No.: 37**

**Class: CSAI**

**Division: B**

**Batch: 2**

**Problem Statement**

Implement various operations using JDBC Connectivity

**Sample Input and Output**

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| **Sample Input/Parameter** | **Expected Output** |
| Add Record | Dialog Message box to display Record Added Successfully |
| Update Record | Dialog Message box to display Record Updated Successfully |
| Delete Record | Dialog Message box to display Record Deleted Successfully |
| Display Record | Display Records in Tabular Format |

**Code :**

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| import java.sql.\*; import java.util.\*;  class Assignment6SwitchCase {   public static void main(String[] args) {   String url = "jdbc:mysql://127.0.0.1:3306/java";  String user = "root";  String pwd = "Mehta2005@Kartik";   System.*out*.println("Please Enter Your Choice: ");  System.*out*.println("1: Add Entry");  System.*out*.println("2: Delete Entry");  System.*out*.println("3: Modify Entry");  System.*out*.println("4: Display All Entries");  System.*out*.println("5: Exit");   Scanner sc = new Scanner(System.*in*);  int choice = sc.nextInt();   try {   Class.*forName*("com.mysql.cj.jdbc.Driver");   Connection con = DriverManager.*getConnection*(url, user, pwd);   switch (choice) {   case 1: {  System.*out*.println("Enter rollNo: ");  int rno = sc.nextInt();   System.*out*.println("Enter Sname: ");  String sname = sc.next();   // Use PreparedStatement to prevent SQL injection  String sqlInsert = "INSERT INTO studd (rollNo, Sname) VALUES (?, ?)";  PreparedStatement pst = con.prepareStatement(sqlInsert);  pst.setInt(1, rno);  pst.setString(2, sname);  pst.executeUpdate();   System.*out*.println("Record inserted successfully");  break;  }   case 2: {  System.*out*.println("Enter rollNo to be deleted: ");  int rno1 = sc.nextInt();   // Use PreparedStatement for deletion  String sqlDelete = "DELETE FROM studd WHERE rollNo = ?";  PreparedStatement pst = con.prepareStatement(sqlDelete);  pst.setInt(1, rno1);  pst.executeUpdate();   System.*out*.println("Record deleted successfully");  break;  }   case 3: {  System.*out*.println("Enter rollNo to be updated: ");  int rno1 = sc.nextInt();  System.*out*.println("Enter New Name: ");  String newName = sc.next();   // Use PreparedStatement for updating  String sqlUpdate = "UPDATE studd SET Sname = ? WHERE rollNo = ?";  PreparedStatement pst = con.prepareStatement(sqlUpdate);  pst.setString(1, newName);  pst.setInt(2, rno1);  pst.executeUpdate();   System.*out*.println("Record updated successfully");  break;  }   case 4: {  Statement st = con.createStatement();  String sql = "SELECT \* FROM studd";  ResultSet rs = st.executeQuery(sql);   while (rs.next()) {  System.*out*.println("RollNo: " + rs.getInt("rollNo"));  System.*out*.println("Sname: " + rs.getString("Sname"));  }  break;  }   case 5: {  System.*out*.println("Exiting...");  break;  }   default: {  System.*out*.println("Invalid choice. Please try again.");  }  }   // Close the connection  con.close();  } catch (SQLException e) {  e.printStackTrace();  } catch (ClassNotFoundException e) {  e.printStackTrace();  }  } }  **Output :**  **Insertion –**  1: Add Entry  2: Delete Entry  3: Modify Entry  4: Display All Entries  5: Exit  1  Enter rollNo:  49  Enter Sname:  Mehta  Record inserted successfully  **Updation –**  Please Enter Your Choice:  1: Add Entry  2: Delete Entry  3: Modify Entry  4: Display All Entries  5: Exit  3  Enter rollNo to be updated:  49  Enter New Name:  Joshi  Record updated successfully  **View –**  Please Enter Your Choice:  1: Add Entry  2: Delete Entry  3: Modify Entry  4: Display All Entries  5: Exit  4  RollNo: 49  Sname: Joshi  **Deletion –**  Please Enter Your Choice:  1: Add Entry  2: Delete Entry  3: Modify Entry  4: Display All Entries  5: Exit  2  Enter rollNo to be deleted:  49  Record deleted successfully |