LAB - 8

Create a Java program using JDBC to insert a new product into the Products table and then implement a trigger in the database that updates the LastModified timestamp in the Product Metadata table whenever a product is added or modified.

Sol:

```
import java.sql.Connection; import
java.sql.DriverManager; import
java.sql.PreparedStatement; import
java.sql.SQLException; public class
ProductInsertion
{ private static final String URL = "jdbc:mysql://localhost:3306/your database";
  private static final String USER = "your username";
  private static final String PASSWORD = "your password"; private static
  Connection connection; private static PreparedStatement preparedStatement;
  public static void main(String[] args) { String productName = "New
  Product"; double price = 10.99; int quantity = 100; try { connection =
    DriverManager.getConnection(URL, USER, PASSWORD);
       String sql = "INSERT INTO Products (ProductName, Price, Quantity) VALUES
(?,?,?)";
       preparedStatement = connection.prepareStatement(sql);
       preparedStatement.setString(1, productName);
       preparedStatement.setDouble(2, price); preparedStatement.setInt(3,
```

```
quantity); int rowsAffected
  preparedStatement.executeUpdate(); if
  (rowsAffected > 0)  {
     System.out.println("Product inserted successfully.");
  } else
     System.out.println("Failed to insert product."); }
}
catch (SQLException e) {
  e.printStackTrace(); }
finally {
try {
     if (preparedStatement != null) {
       preparedStatement.close();
     }
     if (connection != null) {
       connection.close();
     } } catch
  (SQLException e) {
     e.printStackTrace();
  }
}
}
```