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);
 introwsAffected=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(exception)
{
          e.printStackTrace();
       }
     }
      }
```