## To Backup Created Packages and Test Them for Stock Management Application.

## Source Code

```
package com.app.DatabaseConnecttion;
          java.sql.Connection;
import
import
java.sql.DriverManager;
import java.sql.SQLException;
public class DatabaseConnector {
        private static final String JDBC URL = "jdbc:mysql://localhost:3306/ecommerce";
         private static final String USERNAME = "root";
         private static final String PASSWORD = "root";
         static {
           try {
             Class.forName("com.mysql.cj.jdbc.Driver");
           } catch (ClassNotFoundException e) {
             e.printStackTrace();
         }
         public static Connection getConnection() throws SQLException {
                        DriverManager.getConnection(JDBC URL,
           return
                                                                         USERNAME,
           PASSWORD);
```

```
package com.app.ecommerce.Test;
import org.testng.annotations.Test;
import com.app.DatabaseConnecttion.ProductDAO;
public class ECommerceApp {
     @Test
     public void testCheckStockAvailability() {
   String productName = "Laptop";
   ProductDAO productDAO = new ProductDAO();
   int stockQuantity = productDAO.getStockQuantity(productName);
   // Display stock information
   System.out.println("| Stock Availability
                                  |");
   System.out.println("| Product Name | Stock Quantity |");
   System.out.printf("| %-13s | %-15d |%n", productName, stockQuantity);
   System.out.println("=======");
```

}

```
import java.sql.Connection;
import java.sql.PreparedStatement; import
java.sql.ResultSet;
import java.sql.SQLException;
public class ProductDAO {
       public int getStockQuantity(String productName) {
    int stockQuantity = 0;
    try (Connection connection = DatabaseConnector.getConnection()) {
      String sql = "SELECT stock quantity FROM products WHERE product name = ?";
      try (PreparedStatement preparedStatement = connection.prepareStatement(sql)) {
      preparedStatement.setString(1, productName);
        ResultSet resultSet = preparedStatement.executeQuery();
        if (resultSet.next()) {
          stockQuantity = resultSet.getInt("stock quantity");
        }
      }
    } catch (SQLException e) {
      e.printStackTrace();
    }
```

```
return stockQuantity;
   }
 }
    public List<String> getSimilarProducts(String productName) {
//
                    //====TO fetch all Products from Db
//
//
      List<String> allProducts = new ArrayList<>();
//
//
       try (Connection connection = DatabaseConnector.getConnection()) {
//
       String sql = "SELECT product name FROM products";
//
       try (PreparedStatement preparedStatement = connection.prepareStatement(sql)) { //
       ResultSet resultSet = preparedStatement.executeQuery();
//
//
           while (resultSet.next()) {
//
             allProducts.add(resultSet.getString("product name"));
//
           }
//
         }
      } catch (SQLException e) {
//
         e.printStackTrace();
//
//
       }
//
       return allProducts;
//
    }
//}
```

```
//====TO Fetch Only similar products from
 DB // List<String> similarProducts = new ArrayList<>();
//
//
       try (Connection connection = DatabaseConnector.getConnection()) {
// String sql = "SELECT product name FROM products WHERE product name LIKE ?"; //
 try (PreparedStatement preparedStatement = connection.prepareStatement(sql)) {
//
           preparedStatement.setString(1, "%" + productName + "%");
//
            ResultSet resultSet = preparedStatement.executeQuery();
//
//
           while (resultSet.next()) {
//
              similarProducts.add(resultSet.getString("product name"));
//
           }
         }
//
      } catch (SQLException e) {
//
//
         e.printStackTrace();
       }
//
//
//
       return similarProducts;
//
     }
//
//
    }
```