Market Storage Management System

Requirements:

1. We need functionalities that provides the following:

- a. '++' operation for increasing the quantity by 1 and price depending on the price of the single product;
- b. '*' operation for multiplying the **price** of specific product by 10;
- c. '==' operation that is 'true' when two products have two target countries and total price above 500.

2. Sorting functionalities as following:

- a. **Overloaded Sort** -> comparing the products by Serial Number ASC;
- b. Quantity comparer logic for comparing the products by quantity;
- c. **Countries comparer** logic for comparing the products by countries length.

3. Basic Export functionalities for:

a. Creating external text file and save the current products list (using FileInfo/DirectoryInfo implementation as specific system requirement).

4. Advanced Export functionalities (Serializing/Deserializing) for:

- a. Save/Load the current products list in XML file;
- b. Save/Load the current products list in **Json file**.

^{*} Requirements number 3 and 4 are our TOP priority functionalities.

^{*} We need to have control over the potential errors -> in case of IO error we need to have the possibility to read the details from Log text file located on the local File System.