Variant 6

Define a class Product which contains:

* Fields ProductType, Brand, ProductionDate
* Constructor with parameters
* Getters and setters
* Overridden ToString() method
* Method GetAge() calculating the product’s age in full days
* Input() and output() methods for input/output from/to console

Define a descendant class FoodProduct that has:

* Additional field FoodName, SuitabilityDuration
* Constructor with parameters
* Additional getters and setters
* Overridden input() and output() methods
* Method getExpirationDate

Create a collection of products and add some different products and food products to it.

* Serialize the collection to XML file
* Deserialize it back
* Output the data about expired food products
* Output the collection to a txt file
* Implement exception handling
* Sort the data by brand and ProductType
* Write unit tests