HW4 - Grading

Mandatory requirements for accepting the assignment:

1. OOP paradigms
2. Classes of maximum 200 lines (except the UI classes)
3. Methods of maximum 30 lines
4. Java naming conventions https://google.github.io/styleguide/javaguide.html

Minimal requirements for accepting the assignment (5 points):

- Implement the class diagram from the homework specification. Choose wisely the appropriate data structures for saving the Orders and the MenuItems.
- Graphical interface:
    - Window for Administrator operations: add new MenuItem, edit MenuItems, delete MenuItems, view all MenuItems in a table (JTable)
    - Window for Waiter operations: add new Order, view all Orders in a table (JTable), compute bill for an Order
- Documentation

Requirements for maximum grade (5 points):

Requirement	Grading
Use Composite Design Pattern for modelling the classes MenuItem, BaseProduct, CompositeProduct.	1 point
Create bill in .TXT format.	1 point
Design by contract: preconditions and postconditions in the RestaurantProcessing interface. Implement them in the Restaurant class using the assert instruction. Define an invariant for the class Restaurant.	1 point
Window for Chef user: use Observer Design Pattern to notify each time a new Order is added	1 point
Save the information from the Restaurant class in a file using serialization. Load the information when the application starts.	1 point

Submission

- Create a repository on *bitbucket* with the name:
  PT2019_Group_LastName_FirstName_Assignment_4
- Push the source code and the documentation (push the code not an archive with the code)

- Share the repository with the user *utcn_dsrl*

Tutorials

- Java Serialization
    - http://www.tutorialspoint.com/java/java_serialization.htm
- Java HashMap
    - http://javarevisited.blogspot.ro/2011/02/how-hashmap-works-in-java.html
- Java assert
    - http://docs.oracle.com/javase/8/docs/technotes/guides/language/assert.html
    - http://javarevisited.blogspot.ro/2012/01/what-is-assertion-in-java-java.html
    - http://stackoverflow.com/questions/11415160/how-to-enable-the-java-keyword-assert-in-eclipse-program-wise