Requirements:

"The Azamon Shop has articles and shopping carts. An article has a name, type and price. A shopping cart has a user name and a list of articles. We can list all the articles of the shop. We can list all the articles in a shopping cart. We can put an article in a shopping cart. We can calculate the price of all articles in a shopping cart."

Object-Oriented Analysis:

1. identify verbs vs nouns
nouns:
- shop: class
- articles: class
- cart: class
x name: String
x type: String
x price: double
x user name: String
verbs:
- has
x listInShop()
x listInShoppingCart()
x put()
x calculate()

2. identify classes, properties, methods.
- all verbs become methods
- all nouns become either classes or properties
- lots of counts, most likely classes
- if not atomic (that is if it is made up of smaller pieces), then most like class
- if it is a primitive data type (including string) then it is property

3. associate properties and methods with the right class
Shop: articles, carts : listAllArticles()
Article: name, type, price :
Cart: userName, articles : listAllArticles(), putArticle(), calculate()