A#3 Shopping Cast Analysis

Problem: The problem is to implement a shopping cast
that sells three categories of "Items": grocenies, electronics, and
clothing. The user adds purchases via a file with a set command
Fromat <operation > <ategory > cname > <a> cprice> quantity > <ategory > cname > <a> cprice> quantity > <a> cutiques quantity > <a> cutiques field 1> <a> coptional field 1> <a>

Questions: What classes will we need ard what do they do?

- From requirements, we have an Item base class that has name, price, quentity, and weight where weight is whole pounds, quentity is non-negative whole rember (including O), price is real number in dollars & cents, and name is a string with nospaces. We have three subclasses: Growies Greeness, and Clothing, where growies can either be perishable or not, and electronics can be fragile or not.

Rules for the models?

- Penishable grocenies require premium shipping, non-penishable don't.

Electronics that are shipped to TV, NM, VA, AZ, AK have no sales tax.

Fragile electronics require premium shipping. Clothing cloesn't have premium shipping arailable. Shapping out is an Array list of objects inalphabetical premium shipping arailable. Shapping out is an Array list of objects inalphabetical order.

Pricing guidelines?

- Sales tax is 10 90 for clothing and electronics (where applied the firelectronics)
- Standard Shipping costs are 20* weight * quantity, with premium shipping incurring 20% more than standard
- Each item gets shipped separately.

I/O operations

- insert: instantiate object of appropriate type and add to Anaylist
- search: search for name of object and output # of them to screen
- delete delete item based on name and output # deleted
- update update quantity of item based on name and output name and guantity
- print: print contents of cost by name alphabetically, showing all attribute values for each as well as total charges. Total charges for entire shopping

cart will tollow.

How to handle errors? - Report bad transaction, more on to next transaction

Additional Thoughts: each item has calculate Price () method, that returns price the rules.