

Analysis – Program 3

We will have five different classes in our solution. The A3Driver, Clothing, Electronics, Grocery, and Item class. The Item class will implement Comparable<Item> in order for us to sort the multiple items in our shopping cart. The Clothing, electronics, and grocery class will be subclasses of the item class because they are types of items. (is-a relationship) The A3Driver algorithm will split the input string into individual tokens in an array and then parse it. The Clothing, electronics, and grocery classes will all have its respective constructor as well as a way to calculate the final price based on shipping and tax.

Questions:

What kind of attributes are important enough to be printed? Should there be a summary after the last transaction? What if there are multiple input files? Can multiple items have the same exact name? Wouldn't this make update not affect certain duplicate items? Could a class be made for the Shopping Cart to increase the modularity, or is making an ArrayList of Items better overall? Are there methods in the ArrayList class to help organize the items?