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| **COMP 2120 – Computer Programming II**  Seminar #6 |

## Due Date: Tuesday October 30, 2012.

**The purpose of this assignment is to practice creating new classes through inheritance, and perform some basic operations with those classes.**

**Do PP 8.7, page 390.** Modify the problem to incorporate the following:

1. The characteristics listed in the problem statement should be in a parent class that all classes inherit from.
2. There should be 2 “inheritance branches”. One group of electronics will inherit directly from the parent class listed in #1.
3. The other branch should include a child – parent – grandparent inheritance relationship, with the grandparent being the class referred to in #1. Each class should create at least one new instance variable and one method that isn’t in ancestor classes.
4. You don’t need to use the electronic devices listed in the text (computers, cell phones, etc) although you can if you want to. Instead choose electronics devices that make sense according to #1, #2 and #3 above.
5. Finally create an array containing at least 2 different examples of each class you create for #2 and #3. Using a toString write out the basic info about each device you create. Also find the most expensive device in your array.
6. Unlike the parent class which contains quite a bit of information, your descendant classes can be fairly simple. Be sure to test all classes you create to ensure they work properly.

**Assignment Submission:**

Submit a print-out of each file you create and the output.