Assignment: Inheritance

- 1. Implement an abstract superclass called Item and define all common operations on this class (constructors, getters, setters, equals, toString, print, checkIn, checkOut, addItem, etc). Have private data for: identification number, title, and number of copies.
- 2. Implement an abstract subclass of Item named WrittenItem and define all common operations on this class. Added private data for author.
- 3. Implement 2 subclasses of WrittenItem: Book and JournalPaper.
- 3.1. Class Book: no new private data. When needed, override/overload methods from the superclass. 3.2. Class JournalPaper: added private data for year published. When needed, override/overload methods from the superclass.
- 4. Implement another abstract subclass of Item named Medialtem and define all common operations on this class. Added private data for runtime (integer).
- 5. Implement 2 subclasses of Medialtem: Video and CD.
 - 5.1. Class Video: added private data for director, genre and year released. When needed, override/overload methods from the superclass.
 - 5.2. Class CD: added private data for artist and genre. When needed, override/overload methods from the superclass.

Write the definitions of these classes and a client program (your choice!) showing them in use.