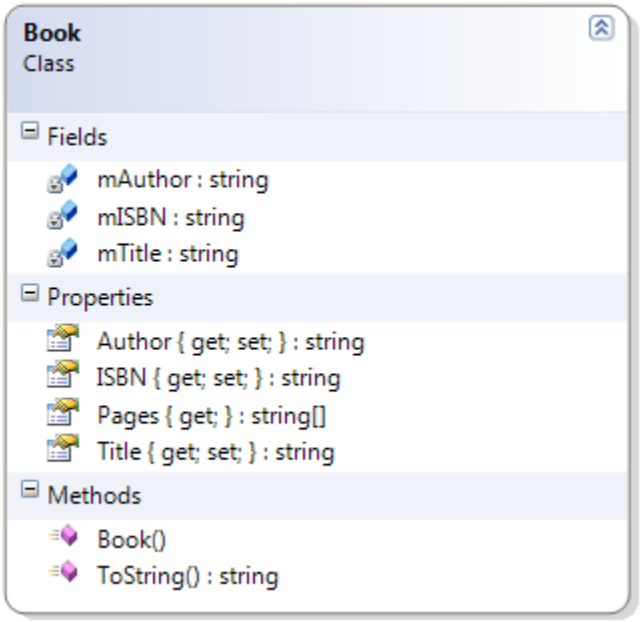
Introduction to Applications in C#

Assignment 5

1. **Class members**. Create a **class Book** that represents a book. The class has these members:

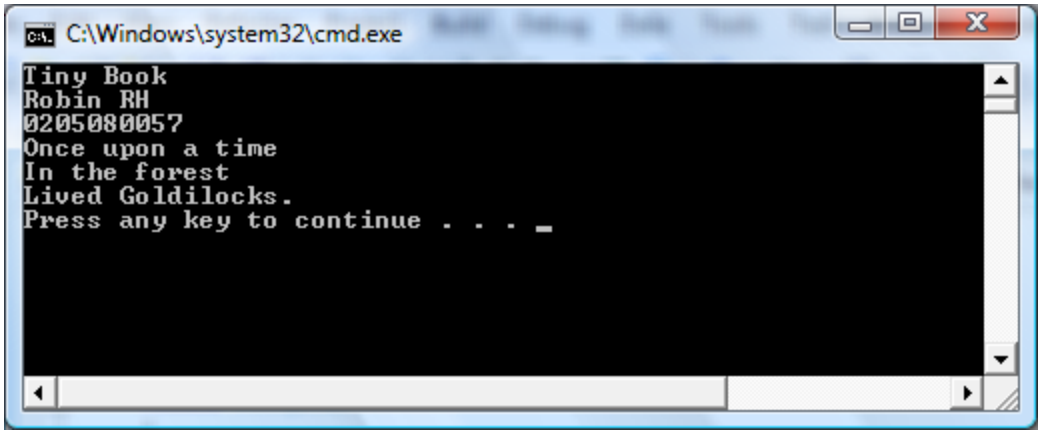
Member	Name	Description
Property	Author	A public string property that holds the author's name.
Property	Title	A public string property that holds the book's title.
Property	ISBN	A public string property that holds the book's ISBN value. (Do not add validation. Simply store a string that the user enters.)
Property	Pages	A public readonly string array property that holds the text for the pages of the book. Only allow the book to have 3 pages. Hint: See the Student.Grades example from class.
Constructor	Book()	A public constructor with no parameters.
Method	ToString()	An override method that returns a string that contains the Title, Author, ISBN, and pages of the book.

When you are done your code should compile (Ctrl+Shift+B) without error, and your class in the Class Designer should look something like this:



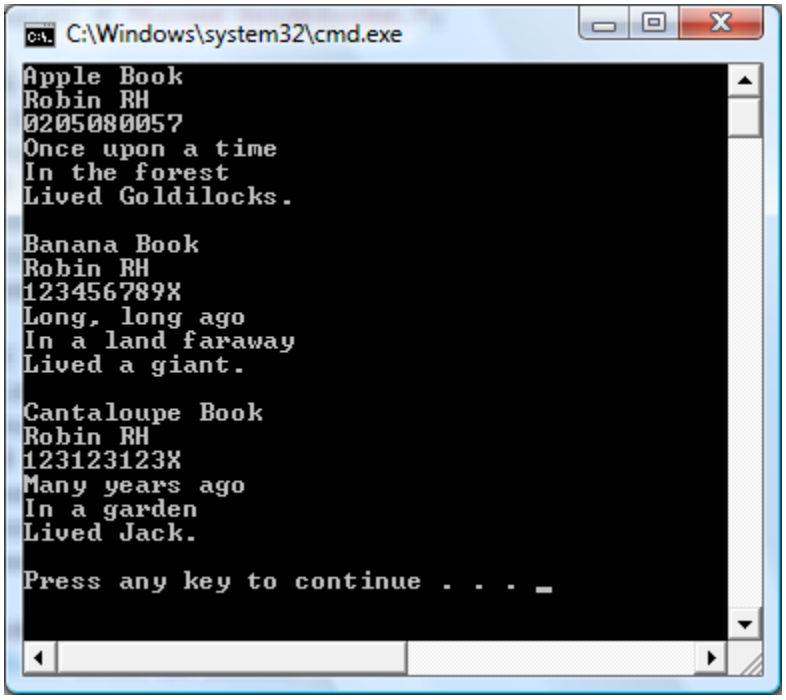
2. **Create one instance of Book.**
   - Create one instance of the Book class.
   - Set the Title, Author, ISBN, and Pages properties. You can prompt the user for the data (tedious for the user), code it directly (quickest to code and test), or read it from a file (challenging).
   - Call the ToString method of the class and write the result to the Console.

   The application should look something like this when you run it:



3. **Create an array of instances of Book.**
   - Create three instances of the Book class, for three books of your choice.
   - Create an array of length 3 and of type Book.
   - Assign the three instances as the three elements in the array. Hint: See the solution for week 4.
   - Write a for loop to print the Title, Author, ISBN, and pages for each instance.

   The application should look something like this when you run it:



4. **Indexer**. (**Optional extra challenge problem**) Add an indexer to the Book class, so that Book[pageNumber] returns the text for the page numbered pageNumber.
5. **Verify that the ISBN is valid. (Optional extra challenge problem)** Verify that the check-digit is a valid ISBN-10 check digit (http://en.wikipedia.org/wiki/Isbn).