Assignment 4 – Pair Programming Project

Assignment description

For this assignment you will create a simple management system for your application. You may choose to work with the code that you submitted as a solution to Assignment 3, or you may utilize the sample code that will be provided to you by the instructor. The application will let the user choose which type of object they wish to create, and will store them in an array of size 5. The user will be able to perform the following operations on each category of items:

- Create a new item
- Show the information stored
- Edit the information stored

This will apply to all classes you have created so far in the course. Don't forget that users will also have to enter any information related to the interface for the objects that do implement it.

Operations

Create a new item
Every time the user chooses to create a new item, the new item will be added in the next available spot in the array. For example, the first item will be added at position 0, the second at position 1, and so on.

Show the information stored
The program will output all the information stored in each of the items. Please keep in mind that the user may choose to show the information for each stored object before the array of 5 is full. This means that you will have to ensure that the program will take empty spots into account.

Edit the information stored
The program will let the user edit the information stored in any object. This means that the user will have to select which item they wish to edit from the ones stored in the array, and then will have to pick the particular attribute that needs to be updated. The program should ask the user for the updated information, and will then output the entire content of the object upon successful editing.

Other requirements
Utilize exception handling techniques to ensure that your program will not fail because of a user's faulty inputs. Documentation: comment each relevant part of your code, and follow Javadoc guidelines where appropriate.

Notes
The name of the class containing your *main* function should be *Assignment4*. The name of the package containing your project should be *assignment4*.
Because of time constraints, cancellations, and delays, this will be the last graded assignment for the semester. I will give assignment 5 if you wish to learn more, however it will not be graded.

Turn in
Turn in any .java files you have created for this assignment. Please make sure that you only turn in the files with the ".java" extension, and not the ".java~" or ".class" ones.