Take-Home lab

In BlueJ create a project called lab2-B with the following class and functionality.

Create a class called **RetailItem**. Include appropriate comments for each class element.

All RetailItem objects have the following attributes, which must be implemented as private instance variables with appropriate data types and descriptive names:

* + - itemDescription
    - itemPriceInCAD
    - isInDemand
    - numberOfUnitsInStock

Provide two constructors for the class. The first one takes no parameters and initializes the numeric instance variable to 1. Field itemDescription will be assigned to “unknown” and field isInDemand will be assigned to false

The second constructor takes parameters to initialize all the instance variables. The constructor will validate the String parameter and uses it if it was not null otherwise an IllegalArgumentException will be thrown with a message explaining what the problem is. The constructor will also validate the numeric parameters and ensures that they are not negative. If one of the numeric parameters was negative an IllegalArgumentException will be thrown with a message explaining the problem. The parameter names should be descriptive and different from the instance variable names. Include Javadoc comments with @param tags for the parameters.

Test your project, make sure it compiles and runs properly by creating a RetailItem object. Inspect to insure that the instance variables have the appropriate values.

Upload it to the appropriate D2L dropbox. A suggested solution will be discussed in class and labs not already in the dropbox by the deadline will not receive any points.

Demonstrate your completed project to your instructor or TA before leaving the lab and be sure we have checked it off. A suggested solution will be given during the next class and labs that have not been checked off will not receive any points. Once you have completed your lab, zip the lab folder and upload it to D2L drop box before the deadline.