Object Oriented Programming Using Ruby Project
(Book Store)

Your program must provide do the following:

1. A Store Item can be a book or a Magazine. A *Book* has a number of pages while a *Magazine* is published by a publisher-agent. Use inheritance to define and develop the suitable classes to represent different store items.Put all the common attributes and methods in the super class *StoreItem*.

Given a file book.txt and a file Magazine.txt having the following formats respectively. Assume that the files reside in the current directory of visual-studio.

Book.txt

#title,price,author name,number of pages,isbn

Ruby Cookbook,100.3,Lucas Carlson,400 ,9780596523695

Ruby programming,90,Jerry Lee,200,1730497513499

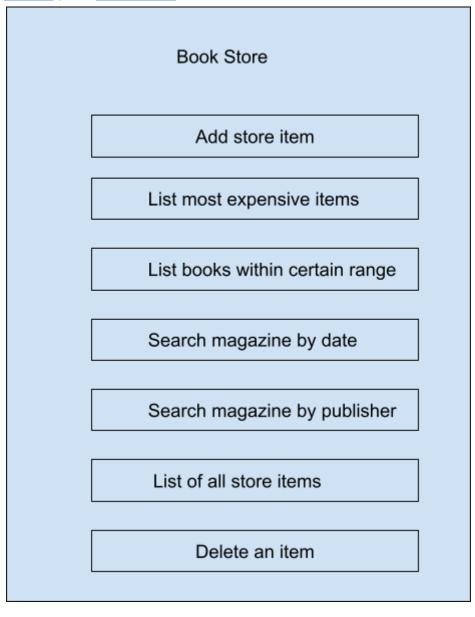Intro to Ruby,80,John Elder,550,1284396855669

Magazine.txt

#title,price,publisher-agent,date

Software Magazine,13,IEEE,20-1-2022

Communications of the ACM,80,ACM,14-6-2021

eLearn,50,ACM,12-1-2021

2. Book Store GUI as shown in the next figure using the Ruby GUI Toolkit
   Shoes ,and its manual.

Book Store

Add store item

List most expensive items

List books within certain range

Search magazine by date

Search magazine by publisher

List of all store items

Delete an item

3. the LibraryManager class that corresponds to the code needed to accomplish all the operations needed by the above menu.

Button	Description
1	Add an item that could be a book or a Magazine
2	The most expensive books can be more than one book
3	The user will enter two values: from price and To-price. The program will retrieve the books in the given range and display them on the GUI.
4	Given the date the app will display all the Magazines in that date
5	Given the publisher the app will display all the Magazines published by that publisher
6	The program displays all the list of items (books and Magazines) with all their information
7	Deleting an item (book or magazine) must be as follows: 1-The user will decide to delete a book or a Magazine 2-The program prompts the user to enter the title of the item. 3- If the book/Magazine exists, it will be deleted, otherwise, display an error message.

	Hint: You can use combobox/dropbox control to display all books or all Magazines. Then the user can select one and clicks on delete button.