**Lab 6**

In this lab, we will practice using various C++ functions to read different types of data from a data file.

The functions we have discussed include:

**get** : read a single character from the input stream, does not skip white spaces

**getline** : read an entire line of characters from the input stream, consumes the end of line character

**extractor operator >>** : read til the next white space character

**ignore** : skips over characters

First, take a look at the content of the data file. The data file is of this format:

The Finkler Question 🡨 title of a book, also the beginning of the first book record Howard Jacobson 🡨 author of the book

3 stars 🡨 reader star rating

10 12 2010 🡨 publication date of the book

15.00 new 🡨 price of the book

Come, thou Tortoise 🡨 beginning of the second book

Jessica Grant

4.8 stars

3 9 2012

22.0 mint 🡨 end of the second book

...

Your program will read ONLY the following information of each book from this data file:

*book title*

*book author*

*star rating, do not include the string "stars"*

*publication year, do not include month and day*

*price, do not include the comments, such as "used", "mint", "new", etc.*

As soon as the program reads the appropriate information for one book, display it on the screen. Then move on to read the information of the next book. The information of all the books are displayed in the table form. Do not store the information in any kind of data structure for this lab.

Your program will also keep count of the total number of books read.

Here is an example output of the program:

A screenshot of a computer screen

Description automatically generated