BOOK BUTLER PROJECT REPORT/ANALYSIS

Following are the csv files that we’ll use in the first few functions:

1. Book\_list which contains the information in the following order: bookname, author, genre and price
2. User\_data which contains information in the following order: reader, (bookname, True/False)……..(bookname, T/F)

T/F represents whether the readers likes or dislikes that book respectively

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The function ‘openbookfile(name)’ takes book\_list.csv as input and converts the information contained in it in dictionary form. The function does the following:

1. It first reads the csv file
2. A loop is run over the data, y in x accessing each line in the file
3. Z in y accessing each element of that line and adding it to a tuple which is empty before every loop and contains elements of that particular line

All of these tuples are inserted into a list, F

Then a loop is run over this List, accessing each tuple. The first element is made the key of a dictionary called bookdict, the remaining made elements made that key’s items. The key is the name of the book, its items is a list containing: a list that tells the genres, author name, price.

At the end of the function the dictionary is stored in the variable book\_data

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The function ‘userdataload(name)’ converts the UserData.csv into a dictionary that contains the readers/users as keys and the item is a dictionary which contains booknames as keys and T/F as its values. Now the function works in the following manner:

It first reads the csv file and then a loop is run over the data in the file

1. Y in x accesses each line in the file
2. Z in y accesses each element of that line

Every element is then added to a tuple which is initially empty before the loop