Func main

Open book\_data.txt in read mode

For line in file loop

If line doesn’t begin with ‘#’

Innerlist = strip chars for I in line split by ‘, ‘ loop)

Append innerlist to booklist

Close loop

Func menu

Input menu choice

If choice == 1

Call get books func

Elif choice == 2

Call get average func

…

Elif choice == 8

Call exit func

Func get books

Initial total value var = int

Initial num of books = int

For book in mainlist loop

Output each attribute of book in mainlist

total value = float book-cost \* float book-stock

num of books = int book-stock

close loop

output total value and total number of books

Func get average

Initial total cost var = int

Initial average cost var = int

For book in mainlist loop

If book-stock is more than 0

Total cost = total cost + book-cost

Close loop

Averagecost var = total cost / length of mainlist

Output average cost rounded by 2 decimal places

Func add new book

Initial total cost var = int

Initial average cost var = int

For book in mainlist loop

If book-stock is more than 0

Total cost = total cost + book-cost

Close loop

OriginalAveragecost var = total cost / length of mainlist

Initial innerlist var = list

Title string input

If length of title is more than 2

append to innerlist

Author string input

If length of author is more than 2

Append to innerlist

Available formats list = [‘hb’, ‘pb’]

Format integer input

If format is more than 0 and less than or equal to 2

Appened available formats[format] to innerlist

Publisher string input

If length of publisher is more 2

Append to innerlist

Cost float input

If cost is more than 0

Append to innerlist

Stock int input

If stock is more than or equal to 0

Append to innerlist

Available genres = [‘fiction’, ‘'biography', 'science', 'religion']

Genre int input

if genre is more than or equal to 1 and genre is less than or equal to 4

append availablegenre[genre] to inner list