# ProjectTester.java

1 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 2 //  
 3 // Name: Derek Gallardo  
 4 // Date: June 25th, 2022  
 5 // Version: 1.0.0  
 6 // Programming Language: Java  
 7 // Java Version: 17  
 8 // Description: Display and change attributes from a list of defined Books. Add new books to the list.  
 9 //  
 10 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 11   
 12 import java.util.ArrayList;  
 13 import java.util.\*;  
 14   
 15 public class ProjectTester {  
 16 public static void main (String[] args) throws Exception {  
 17   
 18 ArrayList<Book> books = new ArrayList<Book>();  
 19 Book bookOne = new Book("The Catch", "Science Fiction", "Blue", 0, 288, false);  
 20 Book bookTwo = new Book("An Immense World", "Fiction", "Red", 0, 100, false);  
 21 Book bookThree = new Book("The Final Strife", "Fiction", "Green", 0, 115, false);  
 22 Book bookFour = new Book("Introduction to Information Technology", "Information Technology", "Yellow", 0, 432, false);  
 23 Book bookFive = new Book("The Disappearing Act", "Fiction", "Black", 0, 104, false);  
 24 Book bookSix = new Book("The Eagle's Claw", "Fiction", "Grey", 0, 323, true);   
 25 books.add(bookOne);  
 26 books.add(bookTwo);  
 27 books.add(bookThree);  
 28 books.add(bookFour);  
 29 books.add(bookFive);  
 30 books.add(bookSix);  
 31 Scanner input = new Scanner(System.in);  
 32 int option;  
 33   
 34 // Book List  
 35 System.out.println("Here is the list of books in the classroom inventory.");  
 36 System.out.println("=====================================================");  
 37   
 38 do {  
 39 for (Book i : books) {  
 40 System.out.println(i.getName()+ ", " + i.getGenre());  
 41 }  
 42   
 43 System.out.println("=====================================================");  
 44 System.out.println("Please wait 2 seconds for the main menu to display.");  
 45 Thread.sleep(3000);  
 46   
 47 // Main Menu  
 48 System.out.println("=====================================================");  
 49 System.out.println("Choose an option: ");  
 50 System.out.println("=====================================================");  
 51 System.out.println("Type 1 for: " + books.get(0).getName());  
 52 System.out.println("Type 2 for: " + books.get(1).getName());  
 53 System.out.println("Type 3 for: " + books.get(2).getName());  
 54 System.out.println("Type 4 for: " + books.get(3).getName());  
 55 System.out.println("Type 5 for: " + books.get(4).getName());  
 56 System.out.println("Type 6 for: " + books.get(5).getName());  
 57 System.out.println("Type 77 to add a new Book.");  
 58 System.out.println("Type 0 to exit the program.");  
 59 System.out.println("=====================================================");  
 60   
 61 // Input  
 62 option = input.nextInt();  
 63 System.out.println("Option chosen is: " + option);   
 64   
 65 // Book 1  
 66 switch (option) {  
 67 case 1: if (option == 1) {  
 68 System.out.println("What would you like to do?");  
 69 System.out.println("Type 1 to Display the Genre");  
 70 System.out.println("Type 2 to Change the Genre");  
 71 System.out.println("Type 3 to Display the Color");  
 72 System.out.println("Type 4 to Change the Color");  
 73 System.out.println("Type 5 to Display the Page Count");  
 74 System.out.println("Type 6 to Change the Page Count");  
 75 System.out.println("Type 7 to Display if the Book is a Best Seller");  
 76 System.out.println("Type 8 to Change the Book's Best Seller status");   
 77 System.out.println("Type 9 to Display how many pages you have read so far");  
 78 System.out.println("Type 10 to Change the number of pages you want to read");   
 79 System.out.println("Type 11 to return to the main menu.");   
 80 option = input.nextInt();  
 81 input.nextLine();  
 82 // Inner switch for Book 1  
 83 switch (option) {  
 84   
 85   
 86 case 1: System.out.println("The genre for " + books.get(0).getName() + " is " + books.get(0).getGenre() + ".");  
 87 System.out.println("Please wait 3 seconds for the menu to reload.");  
 88 System.out.println("=====================================================");  
 89 Thread.sleep(3000);  
 90 break;   
 91 case 2: System.out.println("Set your genre");  
 92 books.get(0).setGenre(input.nextLine());  
 93 System.out.println("Genre for " + books.get(0).getName() + " has changed to " + books.get(0).getGenre());  
 94 break;  
 95   
 96 case 3: System.out.println("The color for " + books.get(0).getName() + " is " + books.get(0).getColor() + ".");  
 97 System.out.println("Please wait 3 seconds for the menu to reload.");  
 98 System.out.println("=====================================================");  
 99 Thread.sleep(3000);  
100 break;   
101 case 4: System.out.println("Set your color");  
102 books.get(0).setColor(input.nextLine());  
103 System.out.println("Color for " + books.get(0).getName() + " has changed to " + books.get(0).getColor());  
104 break;  
105 case 5: System.out.println("The page count for " + books.get(0).getName() + " is " + books.get(0).getPageCount() + ".");  
106 System.out.println("Please wait 3 seconds for the menu to reload.");  
107 System.out.println("=====================================================");  
108 Thread.sleep(3000);  
109 break;   
110 case 6: System.out.println("Set your page count");  
111 books.get(0).setPageCount(input.nextInt());  
112 System.out.println("Page Count for " + books.get(0).getName() + " has changed to " + books.get(0).getPageCount());  
113 break;  
114 case 7: System.out.println("Is " + books.get(0).getName() + " a best seller? " + books.get(0).getBestSeller());  
115 System.out.println("Please wait 3 seconds for the menu to reload.");  
116 System.out.println("=====================================================");  
117 Thread.sleep(3000);  
118 break;   
119 case 8: System.out.println("Set true OR false for the Book's bestseller status");  
120 books.get(0).setBestSeller(input.nextBoolean());  
121 System.out.println("Best Seller status for " + books.get(0).getName() + " has changed to " + books.get(0).getBestSeller());  
122 break;   
123 case 9: System.out.println("The number of pages read for " + books.get(0).getName() + " is " + books.get(0).getPagesRead() + " pages");  
124 System.out.println("Please wait 3 seconds for the menu to reload.");  
125 System.out.println("=====================================================");  
126 Thread.sleep(3000);  
127 break;   
128 case 10: System.out.println("Set the number of pages you have read");  
129 books.get(0).setPagesRead(input.nextInt());  
130 System.out.println("Pages read for " + books.get(0).getName() + " has changed to " + books.get(0).getPagesRead() + " pages. " + "There are " + books.get(0).getPagesRemaining() + " pages remaining to be read.");  
131 break;   
132   
133 case 11: if (option == 11) {   
134 System.out.println("Returning to main menu");  
135 break;   
136 }   
137 } // end of inner switch block  
138 } // End of case/book 1 if block  
139   
140 // Book 2  
141 case 2: if (option == 2) {  
142 System.out.println("What would you like to do?");  
143 System.out.println("Type 1 to Display the Genre");  
144 System.out.println("Type 2 to Change the Genre");  
145 System.out.println("Type 3 to Display the Color");  
146 System.out.println("Type 4 to Change the Color");  
147 System.out.println("Type 5 to Display the Page Count");  
148 System.out.println("Type 6 to Change the Page Count");  
149 System.out.println("Type 7 to Display if the Book is a Best Seller");  
150 System.out.println("Type 8 to Change the Book's Best Seller status");   
151 System.out.println("Type 9 to Display how many pages you have read so far");  
152 System.out.println("Type 10 to Change the number of pages you want to read");  
153 System.out.println("Type 11 to return to the main menu.");   
154 option = input.nextInt();  
155 input.nextLine();  
156   
157 // Inner switch for Book 2  
158 switch (option) {  
159   
160 case 1: System.out.println("The genre for " + books.get(1).getName() + " is " + books.get(1).getGenre() + ".");  
161 System.out.println("Please wait 3 seconds for the menu to reload.");  
162 System.out.println("=====================================================");  
163 Thread.sleep(3000);  
164 break;   
165 case 2: System.out.println("Set your genre");  
166 books.get(1).setGenre(input.nextLine());  
167 System.out.println("Genre for " + books.get(1).getName() + " has changed to " + books.get(1).getGenre());  
168 break;  
169 case 3: System.out.println("The color for " + books.get(1).getName() + " is " + books.get(1).getColor() + ".");  
170 System.out.println("Please wait 3 seconds for the menu to reload.");  
171 System.out.println("=====================================================");  
172 Thread.sleep(3000);  
173 break;   
174 case 4: System.out.println("Set your color");  
175 books.get(1).setColor(input.nextLine());  
176 System.out.println("Color for " + books.get(1).getName() + " has changed to " + books.get(1).getColor());  
177 break;  
178 case 5: System.out.println("The page count for " + books.get(1).getName() + " is " + books.get(1).getPageCount() + ".");  
179 System.out.println("Please wait 3 seconds for the menu to reload.");  
180 System.out.println("=====================================================");  
181 Thread.sleep(3000);  
182 break;   
183 case 6: System.out.println("Set your page count");  
184 books.get(1).setPageCount(input.nextInt());  
185 System.out.println("Page Count for " + books.get(1).getName() + " has changed to " + books.get(1).getPageCount());  
186 break;  
187 case 7: System.out.println("Is " + books.get(1).getName() + " a best seller? " + books.get(1).getBestSeller());  
188 System.out.println("Please wait 3 seconds for the menu to reload.");  
189 System.out.println("=====================================================");  
190 Thread.sleep(3000);  
191 break;   
192 case 8: System.out.println("Set true OR false for the Book's bestseller status");  
193 books.get(1).setBestSeller(input.nextBoolean());  
194 System.out.println("Best Seller status for " + books.get(1).getName() + " has changed to " + books.get(1).getBestSeller());  
195 break;   
196 case 9: System.out.println("The number of pages read for " + books.get(1).getName() + " is " + books.get(1).getPagesRead() + " pages");  
197 System.out.println("Please wait 3 seconds for the menu to reload.");  
198 System.out.println("=====================================================");  
199 Thread.sleep(3000);  
200 break;   
201 case 10: System.out.println("Set the number of pages you have read");  
202 books.get(1).setPagesRead(input.nextInt());  
203 System.out.println("Pages read for " + books.get(1).getName() + " has changed to " + books.get(1).getPagesRead() + " pages. " + "There are " + books.get(1).getPagesRemaining() + " pages remaining to be read.");  
204 break;  
205 case 11: if (option == 11) {   
206 System.out.println("Returning to main menu");  
207 break;   
208 }   
209 } // end inner switch block 2   
210 } // End of case/book 2 if block  
211   
212 // Book 3  
213 case 3: if (option == 3) {  
214 System.out.println("What would you like to do?");  
215 System.out.println("Type 1 to Display the Genre");  
216 System.out.println("Type 2 to Change the Genre");  
217 System.out.println("Type 3 to Display the Color");  
218 System.out.println("Type 4 to Change the Color");  
219 System.out.println("Type 5 to Display the Page Count");  
220 System.out.println("Type 6 to Change the Page Count");  
221 System.out.println("Type 7 to Display if the Book is a Best Seller");  
222 System.out.println("Type 8 to Change the Book's Best Seller status");   
223 System.out.println("Type 9 to Display how many pages you have read so far");  
224 System.out.println("Type 10 to Change the number of pages you want to read");  
225 System.out.println("Type 11 to return to the main menu.");   
226 option = input.nextInt();  
227 input.nextLine();  
228   
229 // Inner switch for Book 3  
230 switch (option) {  
231   
232 case 1: System.out.println("The genre for " + books.get(2).getName() + " is " + books.get(2).getGenre() + ".");  
233 System.out.println("Please wait 3 seconds for the menu to reload.");  
234 System.out.println("=====================================================");  
235 Thread.sleep(3000);  
236 break;   
237 case 2: System.out.println("Set your genre");  
238 books.get(2).setGenre(input.nextLine());  
239 System.out.println("Genre for " + books.get(2).getName() + " has changed to " + books.get(2).getGenre());  
240 break;  
241 case 3: System.out.println("The color for " + books.get(2).getName() + " is " + books.get(2).getColor() + ".");  
242 System.out.println("Please wait 3 seconds for the menu to reload.");  
243 System.out.println("=====================================================");  
244 Thread.sleep(3000);  
245 break;   
246 case 4: System.out.println("Set your color");  
247 books.get(2).setColor(input.nextLine());  
248 System.out.println("Color for " + books.get(2).getName() + " has changed to " + books.get(2).getColor());  
249 break;  
250 case 5: System.out.println("The page count for " + books.get(2).getName() + " is " + books.get(2).getPageCount() + ".");  
251 System.out.println("Please wait 3 seconds for the menu to reload.");  
252 System.out.println("=====================================================");  
253 Thread.sleep(3000);  
254 break;   
255 case 6: System.out.println("Set your page count");  
256 books.get(2).setPageCount(input.nextInt());  
257 System.out.println("Page Count for " + books.get(2).getName() + " has changed to " + books.get(2).getPageCount());  
258 break;  
259 case 7: System.out.println("Is " + books.get(2).getName() + " a best seller? " + books.get(2).getBestSeller());  
260 System.out.println("Please wait 3 seconds for the menu to reload.");  
261 System.out.println("=====================================================");  
262 Thread.sleep(3000);  
263 break;   
264 case 8: System.out.println("Set true OR false for the Book's bestseller status");  
265 books.get(2).setBestSeller(input.nextBoolean());  
266 System.out.println("Best Seller status for " + books.get(2).getName() + " has changed to " + books.get(2).getBestSeller());  
267 break;   
268 case 9: System.out.println("The number of pages read for " + books.get(2).getName() + " is " + books.get(2).getPagesRead() + " pages");  
269 System.out.println("Please wait 3 seconds for the menu to reload.");  
270 System.out.println("=====================================================");  
271 Thread.sleep(3000);  
272 break;   
273 case 10: System.out.println("Set the number of pages you have read");  
274 books.get(2).setPagesRead(input.nextInt());  
275 System.out.println("Pages read for " + books.get(2).getName() + " has changed to " + books.get(2).getPagesRead() + " pages. " + "There are " + books.get(2).getPagesRemaining() + " pages remaining to be read.");  
276 break;   
277 case 11: if (option == 11) {   
278 System.out.println("Returning to main menu");  
279 break;   
280 }   
281 } // end inner switch block 3  
282   
283 } // End of case/book 3 if block  
284   
285 // Book 4  
286 case 4: if (option == 4) {  
287 System.out.println("What would you like to do?");  
288 System.out.println("Type 1 to Display the Genre");  
289 System.out.println("Type 2 to Change the Genre");  
290 System.out.println("Type 3 to Display the Color");  
291 System.out.println("Type 4 to Change the Color");  
292 System.out.println("Type 5 to Display the Page Count");  
293 System.out.println("Type 6 to Change the Page Count");  
294 System.out.println("Type 7 to Display if the Book is a Best Seller");  
295 System.out.println("Type 8 to Change the Book's Best Seller status");   
296 System.out.println("Type 9 to Display how many pages you have read so far");  
297 System.out.println("Type 10 to Change the number of pages you want to read");  
298 System.out.println("Type 11 to return to the main menu.");   
299 option = input.nextInt();  
300 input.nextLine();  
301   
302 // Inner switch for Book 4  
303 switch (option) {  
304 case 1: System.out.println("The genre for " + books.get(3).getName() + " is " + books.get(3).getGenre() + ".");  
305 System.out.println("Please wait 3 seconds for the menu to reload.");  
306 System.out.println("=====================================================");  
307 Thread.sleep(3000);  
308 break;   
309 case 2: System.out.println("Set your genre");  
310 books.get(3).setGenre(input.nextLine());  
311 System.out.println("Genre for " + books.get(3).getName() + " has changed to " + books.get(3).getGenre());  
312 break;  
313 case 3: System.out.println("The color for " + books.get(3).getName() + " is " + books.get(3).getColor() + ".");  
314 System.out.println("Please wait 3 seconds for the menu to reload.");  
315 System.out.println("=====================================================");  
316 Thread.sleep(3000);  
317 break;   
318 case 4: System.out.println("Set your color");  
319 books.get(3).setColor(input.nextLine());  
320 System.out.println("Color for " + books.get(3).getName() + " has changed to " + books.get(3).getColor());  
321 break;  
322 case 5: System.out.println("The page count for " + books.get(3).getName() + " is " + books.get(3).getPageCount() + ".");  
323 System.out.println("Please wait 3 seconds for the menu to reload.");  
324 System.out.println("=====================================================");  
325 Thread.sleep(3000);  
326 break;   
327 case 6: System.out.println("Set your page count");  
328 books.get(3).setPageCount(input.nextInt());  
329 System.out.println("Page Count for " + books.get(3).getName() + " has changed to " + books.get(3).getPageCount());  
330 break;  
331 case 7: System.out.println("Is " + books.get(3).getName() + " a best seller? " + books.get(3).getBestSeller());  
332 System.out.println("Please wait 3 seconds for the menu to reload.");  
333 System.out.println("=====================================================");  
334 Thread.sleep(3000);  
335 break;   
336 case 8: System.out.println("Set true OR false for the Book's bestseller status");  
337 books.get(3).setBestSeller(input.nextBoolean());  
338 System.out.println("Best Seller status for " + books.get(3).getName() + " has changed to " + books.get(3).getBestSeller());  
339 break;   
340 case 9: System.out.println("The number of pages read for " + books.get(3).getName() + " is " + books.get(3).getPagesRead() + " pages");  
341 System.out.println("Please wait 3 seconds for the menu to reload.");  
342 System.out.println("=====================================================");  
343 Thread.sleep(3000);  
344 break;   
345 case 10: System.out.println("Set the number of pages you have read");  
346 books.get(3).setPagesRead(input.nextInt());  
347 System.out.println("Pages read for " + books.get(3).getName() + " has changed to " + books.get(3).getPagesRead() + " pages. " + "There are " + books.get(3).getPagesRemaining() + " pages remaining to be read.");  
348 break;  
349 case 11: if (option == 11) {   
350 System.out.println("Returning to main menu");  
351 break;   
352 }   
353 } // end of inner switch block 4  
354 } // End of case/book 4 if block  
355   
356 // Book 5  
357 case 5: if (option == 5) {  
358 System.out.println("What would you like to do?");  
359 System.out.println("Type 1 to Display the Genre");  
360 System.out.println("Type 2 to Change the Genre");  
361 System.out.println("Type 3 to Display the Color");  
362 System.out.println("Type 4 to Change the Color");  
363 System.out.println("Type 5 to Display the Page Count");  
364 System.out.println("Type 6 to Change the Page Count");  
365 System.out.println("Type 7 to Display if the Book is a Best Seller");  
366 System.out.println("Type 8 to Change the Book's Best Seller status");   
367 System.out.println("Type 9 to Display how many pages you have read so far");  
368 System.out.println("Type 10 to Change the number of pages you want to read");  
369 System.out.println("Type 11 to return to the main menu.");   
370 option = input.nextInt();  
371 input.nextLine();  
372   
373 // Inner switch for Book 5  
374 switch (option) {  
375 case 1: System.out.println("The genre for " + books.get(4).getName() + " is " + books.get(4).getGenre() + ".");  
376 System.out.println("Please wait 3 seconds for the menu to reload.");  
377 System.out.println("=====================================================");  
378 Thread.sleep(3000);  
379 break;   
380 case 2: System.out.println("Set your genre");  
381 books.get(4).setGenre(input.nextLine());  
382 System.out.println("Genre for " + books.get(4).getName() + " has changed to " + books.get(4).getGenre());  
383 break;  
384 case 3: System.out.println("The color for " + books.get(4).getName() + " is " + books.get(4).getColor() + ".");  
385 System.out.println("Please wait 3 seconds for the menu to reload.");  
386 System.out.println("=====================================================");  
387 Thread.sleep(3000);  
388 break;   
389 case 4: System.out.println("Set your color");  
390 books.get(4).setColor(input.nextLine());  
391 System.out.println("Color for " + books.get(4).getName() + " has changed to " + books.get(4).getColor());  
392 break;  
393 case 5: System.out.println("The page count for " + books.get(4).getName() + " is " + books.get(4).getPageCount() + ".");  
394 System.out.println("Please wait 3 seconds for the menu to reload.");  
395 System.out.println("=====================================================");  
396 Thread.sleep(3000);  
397 break;   
398 case 6: System.out.println("Set your page count");  
399 books.get(4).setPageCount(input.nextInt());  
400 System.out.println("Page Count for " + books.get(4).getName() + " has changed to " + books.get(4).getPageCount());  
401 break;  
402 case 7: System.out.println("Is " + books.get(4).getName() + " a best seller? " + books.get(4).getBestSeller());  
403 System.out.println("Please wait 3 seconds for the menu to reload.");  
404 System.out.println("=====================================================");  
405 Thread.sleep(3000);  
406 break;   
407 case 8: System.out.println("Set true OR false for the Book's bestseller status");  
408 books.get(4).setBestSeller(input.nextBoolean());  
409 System.out.println("Best Seller status for " + books.get(4).getName() + " has changed to " + books.get(4).getBestSeller());  
410 break;   
411 case 9: System.out.println("The number of pages read for " + books.get(4).getName() + " is " + books.get(4).getPagesRead() + " pages");  
412 System.out.println("Please wait 3 seconds for the menu to reload.");  
413 System.out.println("=====================================================");  
414 Thread.sleep(3000);  
415 break;   
416 case 10: System.out.println("Set the number of pages you have read");  
417 books.get(4).setPagesRead(input.nextInt());  
418 System.out.println("Pages read for " + books.get(4).getName() + " has changed to " + books.get(4).getPagesRead() + " pages. " + "There are " + books.get(4).getPagesRemaining() + " pages remaining to be read.");  
419 break;  
420 case 11: if (option == 11) {   
421 System.out.println("Returning to main menu");  
422 break;   
423 }   
424 } // end of inner switch block 5  
425 } // End of case/book 5 if block  
426   
427 // Book 6  
428 case 6: if (option == 6) {  
429 System.out.println("What would you like to do?");  
430 System.out.println("Type 1 to Display the Genre");  
431 System.out.println("Type 2 to Change the Genre");  
432 System.out.println("Type 3 to Display the Color");  
433 System.out.println("Type 4 to Change the Color");  
434 System.out.println("Type 5 to Display the Page Count");  
435 System.out.println("Type 6 to Change the Page Count");  
436 System.out.println("Type 7 to Display if the Book is a Best Seller");  
437 System.out.println("Type 8 to Change the Book's Best Seller status");   
438 System.out.println("Type 9 to Display how many pages you have read so far");  
439 System.out.println("Type 10 to Change the number of pages you want to read");  
440 System.out.println("Type 11 to return to the main menu.");   
441 option = input.nextInt();  
442 input.nextLine();  
443   
444 // Inner switch for Book 6  
445 switch (option) {  
446 case 1: System.out.println("The genre for " + books.get(5).getName() + " is " + books.get(5).getGenre() + ".");  
447 System.out.println("Please wait 3 seconds for the menu to reload.");  
448 System.out.println("=====================================================");  
449 Thread.sleep(3000);  
450 break;   
451 case 2: System.out.println("Set your genre");  
452 books.get(5).setGenre(input.nextLine());  
453 System.out.println("Genre for " + books.get(5).getName() + " has changed to " + books.get(5).getGenre());  
454 break;  
455 case 3: System.out.println("The color for " + books.get(5).getName() + " is " + books.get(5).getColor() + ".");  
456 System.out.println("Please wait 3 seconds for the menu to reload.");  
457 System.out.println("=====================================================");  
458 Thread.sleep(3000);  
459 break;   
460 case 4: System.out.println("Set your color");  
461 books.get(5).setColor(input.nextLine());  
462 System.out.println("Color for " + books.get(5).getName() + " has changed to " + books.get(5).getColor());  
463 break;  
464 case 5: System.out.println("The page count for " + books.get(5).getName() + " is " + books.get(5).getPageCount() + ".");  
465 System.out.println("Please wait 3 seconds for the menu to reload.");  
466 System.out.println("=====================================================");  
467 Thread.sleep(3000);  
468 break;   
469 case 6: System.out.println("Set your page count");  
470 books.get(5).setPageCount(input.nextInt());  
471 System.out.println("Page Count for " + books.get(5).getName() + " has changed to " + books.get(5).getPageCount());  
472 break;  
473 case 7: System.out.println("Is " + books.get(5).getName() + " a best seller? " + books.get(5).getBestSeller());  
474 System.out.println("Please wait 3 seconds for the menu to reload.");  
475 System.out.println("=====================================================");  
476 Thread.sleep(3000);  
477 break;   
478 case 8: System.out.println("Set true OR false for the Book's bestseller status");  
479 books.get(5).setBestSeller(input.nextBoolean());  
480 System.out.println("Best Seller status for " + books.get(5).getName() + " has changed to " + books.get(5).getBestSeller());  
481 break;   
482 case 9: System.out.println("The number of pages read for " + books.get(5).getName() + " is " + books.get(5).getPagesRead() + " pages");  
483 System.out.println("Please wait 3 seconds for the menu to reload.");  
484 System.out.println("=====================================================");  
485 Thread.sleep(3000);  
486 break;   
487 case 10: System.out.println("Set the number of pages you have read");  
488 books.get(5).setPagesRead(input.nextInt());  
489 System.out.println("Pages read for " + books.get(5).getName() + " has changed to " + books.get(5).getPagesRead() + " pages. " + "There are " + books.get(5).getPagesRemaining() + " pages remaining to be read.");  
490 break;  
491 case 11: if (option == 11) {   
492 System.out.println("Returning to main menu");  
493 break;   
494 }   
495 } // end of inner switch block 6   
496 } // End of case/book 6 if block  
497   
498   
499 // New Book Addition  
500 case 77: if (option == 77) {  
501 input.nextLine();  
502 System.out.println("Please enter the name of your book: " );  
503 String bookName = input.nextLine();  
504 System.out.print("Please enter the genre of your book: " );  
505 String bookGenre = input.nextLine();  
506 System.out.print("Please enter the color of your book: " );  
507 String bookColor = input.nextLine();  
508 System.out.print("Please enter how many pages you have read so far (numbers only): " );  
509 int pagesRead = input.nextInt();  
510 System.out.print("Please enter how many pages your book contains (numbers only): " );  
511 int pageCount = input.nextInt();  
512 System.out.print("Please enter true or false if your book is a best seller: " );  
513 boolean bestSeller = input.nextBoolean();  
514 Book bookSeven = new Book(bookName, bookGenre, bookColor, pagesRead, pageCount, bestSeller);  
515 books.add(bookSeven);  
516 System.out.println("=====================================================");   
517 System.out.println("A new book has been added to the inventory");   
518 System.out.println("=====================================================");   
519 Thread.sleep(1000);  
520 }  
521   
522 // End the Program  
523 case 0: if (option == 0) {  
524 System.out.println("You have chosen to exit the program. Goodbye.");  
525 }   
526   
527 } // End of outer switch block  
528   
529 } while (option != 0); // End of Do while loop   
530   
531 input.close(); // Scanner closes  
532   
533 } // end of method  
534 } // end of tester class  
535

# Book.java

1 public class Book {  
 2 private String name;  
 3 private String genre;  
 4 private String color;  
 5 private int pagesRead;  
 6 private int pageCount;  
 7 private boolean bestSeller;  
 8   
 9   
10 public Book(String name, String genre, String color, int pagesRead, int pageCount, boolean bestSeller) {  
11 this.name = name;  
12 this.genre = genre;  
13 this.color = color;  
14 this.pagesRead = pagesRead;  
15 this.pageCount = pageCount;  
16 this.bestSeller = bestSeller;  
17 }  
18   
19 public String getName() {  
20 return name;  
21 }  
22   
23 public void setName(String name) {  
24 this.name = name;  
25 }  
26   
27 public String getGenre() {  
28 return genre;  
29 }  
30   
31 public void setGenre(String genre) {  
32 this.genre = genre;  
33 }  
34   
35 public String getColor() {  
36 return color;  
37 }  
38   
39 public void setColor(String color) {  
40 this.color = color;  
41 }  
42   
43 public int getPagesRead() {  
44 return pagesRead;  
45 }  
46   
47 public void setPagesRead(int pagesRead) {  
48 this.pagesRead = pagesRead;  
49   
50   
51 }  
52   
53 public int getPagesRemaining() {  
54 int pageCount = getPageCount();  
55 int pagesRead = getPagesRead();  
56 int pagesRemaining;  
57 pagesRemaining = pageCount - pagesRead;  
58 return pagesRemaining;  
59 }  
60   
61 public int getPageCount() {  
62 if (pageCount == 0) {  
63 System.out.println("Page cannot be 0. Minimum of one page is required.");  
64 pageCount = pageCount + 1;  
65 }  
66 return pageCount;  
67 }  
68   
69 public void setPageCount(int pageCount) {  
70 this.pageCount = pageCount;  
71   
72 }  
73   
74 public boolean getBestSeller() {  
75 return bestSeller;  
76 }  
77   
78 public void setBestSeller(boolean bestSeller) {  
79 this.bestSeller = bestSeller;  
80 }  
81   
82   
83 }  
84