Exercises Module 13 - OOP

Task 1 - Books on Amazon

You work as a developer at Amazon and you are going to develop a program that can keep track of books.

You decide to create a class for books.

The Book class should contain three instance variables. They should all be public:

- String title
- String author
- int price

Create a static method inside the Main class that prints out data about a book:

- public static void printBookDetails(Book book).
  - Takes a book object as input argument and doesn't return anything (void).
  - Prints out title, author and price.
  - Prints a label before the values so that a user can se what is printed out.

Do this inside the main method:

- Create two objects of the Book class.
- Set the values of the variables with dot notation (the variables are public and therefore directly accessible).
- Call the static method *printBookDetails* and send it one book object to be printed out.

Task 2 - Movies on Amazon

Create another class Movie

First create an enum *MovieGenre* for a movie genres. There must be four genres: DRAMA, COMEDY, ACTION and DOCUMENTARY.

The Movie class should contain three instance variables. They are all public.

- String title
- MovieGenre genre
- int price

Create a static method inside the Main class that prints out data about a movie:

- public static void printMovieDetails(Movie movie)

- Implemented in a similar way as *printBookDetails*.

Inside the main method:

- Create two objects of the class Movie.
- Set the values of the variables
- Call the *printMovieDetails* method to print out information about one of the films.

Task 3 - Objects in arrays

Create an array of Book objects.

Add at least two books to the Book array.

Use a loop to iterate over the books in the Book array and call *printBookDetails* for each book. You can choose any type of loop for this task (for loop, for each loop, while loop).

Then create an array of Movie objects.

Add at least two movies to the Movie array.

Use a loop to iterate over the movies in the Movie array and call printMovieDetails for each movie. Use a different loop this time, other than the one used for iterating the Book array.