OOP - Exercises

- 1. Make a program that can print out "drive" method in a OOP way.
 - a. Create a class "Car" with the following fields: id, year, model, colour, motorSize.
 - b. Create a public method "drive" inside "Car" which will print: model + " with motor" + motorSize + " can drive now."
 - c. In the main program make instance of "Car" and call the method "drive".
 - Covering class design and instances
- 2. Make a program that prints out the area on a rectangle in a OOP way.
 - a. Create a class "Rectangle" with the following fields: height, width. (both should be double values.)
 - b. Make two constructors, one default constructor without parameters and the second constructor which should take two parameters (height and weight).
 - c. Add getter and setter for height and width fields.
 - d. Write public method "getArea" which will return area (height*weight).
 - e. In the main program create instance of that "Rectangle" and ask user for height and width and then print calculated area.
 - -Covering Constructors, getters, and setters
- 3. Make a program that demonstrates the relationship between Classes.
 - a. Create a class "Author" and create a class "Book".
 - b. Create the appropriate relationship between "Author" and "Book".
 - i. One book can be written by only one author.
 - ii. One author can write one or more books.
 - c. In the main program create an array of authors where each author has at least one book.
 - d. Add a method that prints all books that have been written by a specific author.
 - e. Add another method to print the author of a specific book.
 - -Covering relationship between Classes.