1. Să presupunem că dezvoltăm un sistem pentru o bibliotecă unde urmărim numărul total de cărți și fiecare carte individuală are un cod unic, un titlu și un autor. De asemenea, dorim să protejăm datele și să evităm modificările nedorite.

2. Write a Java program to create a class called Person with private instance variables name, age. and country. Provide public getter and setter methods to access and modify these variables.

3. Write a Java program to create a class called BankAccount with private instance variables accountNumber and balance. Provide public getter and setter methods to access and modify these variables.

4. Write a Java program to create a class called Rectangle with private instance variables length and width. Provide public getter and setter methods to access and modify these variables.

5. Write a Java program to create a class called Circle with a private instance variable radius. Provide public getter and setter methods to access and modify the radius variable. However, provide two methods called calculateArea() and calculatePerimeter() that return the calculated area and perimeter based on the current radius value

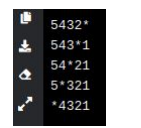
6. Write a Java program to create a class called Car with private instance variables company\_name, model\_name, year, and mileage. Provide public getter and setter methods to access and modify the company\_name, model\_name, and year variables. However, only provide a getter method for the mileage variable.

Pentru mai multe exercitii si exemple pentru capitolul incampsulare puteti accesa:

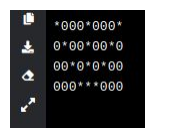
- <https://www.w3resource.com/java-exercises/encapsulation/index.php>

- <https://github.com/VasAtanasov/SoftUni-Java-OOP-February-2019/blob/master/06%20EXERCISE%20ENCAPSULATION/README.md>

7. Print the following patter



8. Print the following pattern:



9. Write a program that encapsulates the properties of a car: name, top speed and calculates the top speed in KMH (kilometers) and MPH (miles). These are displayed through getters (accessors) methods.