Homework

Today you should implement a telephone book. First you are going to need a class "Person" to store the information of the people to store in the telephone book. You should store at least the Firstname, the Surname, the address, the telephone number and the email address. Also think of way to store the gender of the person and make sure only "male" and "female" are allowed. Create "Getters" for all information and make sure it is initialized in a constructor. Also write the toString() method and return a String you can easily print on the console.

When finished with the person class implement your TelephoneBook class. TelephoneBook objects should store a limited amount of Person objects. This limited capacity should be given in the constructor – try to think of a way to store the Person objects. You should be able to add persons to the telephone book only if there's still capacity left (e.g. a telephone book with capacity 2 can only store 2 persons, if you want to add a 3rd person, an error message should occur). Also implement the toString() method, returning all the information of the stored persons – try to make it look like a real telephone book.

In the end create a new class Main, with the main(String[] args) method and test your implementation. Create at least 2 telephone books of different capacity and add persons to them. Do not forget to test your error messages when more people are added to the telephone book than it's capacity can hold.

If you run into any errors, try to google them.