Workshop 3: Array (extra from workshop 2)

- The Address class includes the following information: house number, street name, ward, district, province, or city.

- The Person class includes: full name, ID number, address, email, and phone number.

- The Student class inherits from the person and has more information about the student code, key, specialization majors, and student ratings.

- The Instructor class inherits from the person and has more information about the instructor code, specialization subject, number of years of experience, salary, and working position.

- The Dean is a lecturer and has more information about tenure in years and members achievements.

- The graduates are students and have more information about positions and salaries.

- Currently, the number of subjects that have to be retaken and the total tuition fees paid during the study period

- The Document includes the name of the document, author, year of publication, and cover price.

- The Subject inherits from the document and has more subject codes, number of credits and title of prerequisite courses, and references.

Define the required methods for each class yourself and fulfill the following requirements with classes: students, graduates, lecturers, subjects:

1. Add a new x object to the list.

2. Edit the information for any object x in the list according to the given code.

3. Clear the information of object x for any code entered from the keyboard.

4. Search for objects by name.

5. Search for objects by code.

6. Sort the list by name, ascending from a to z.