**Workshop 1:** CLASSES & OBJECT

**Ex1:** The student information includes the following features:

- Student information includes: middle name, address, email, phone number, and student code.

- Student actions include going to school, doing homework, paying tuition, taking exams, giving complete information about yourself, using constructors with and without parameters, and getting and setting methods.

Enter the information of a number of students, then let that student go to school, do assignments, pay tuition fees, and provide complete information about that student when performing the functions just now.

**Ex2:** The subject information includes: course code, course name, number of periods, number of credits (>=1 and = 4), number of tests (> 1 and   5), instructor. The subject can perform actions such as providing complete information about itself, having constructors, getters, and setters with corresponding properties.

Enter the information of some subjects and then display the information of those subjects on the screen.

**Ex3:** Each student who learns a certain subject will have tuition fees, test scores and subject averages, and a status of learning results (pass or fail course).

- Tuition is calculated based on the number of credits divided by the tuition fee per credit. Let's say the tuition fee for one credit is $560.

- The average subject is calculated by the formula: 10% of test number 1 + 20% of test number 2, 30% of test number 3, and 40% of test number 4. If there are only 2 tests, then TB = 30-70; if there are 3 lessons, then 20-30-50 for tests No. 1, 2, and 3.

Students are called passing the subject if the average score of the subject is >= 4, otherwise, the subject will fail.

Please enter learning information for some students created in Ex 1 and subjects used in Ex2. Display information on the screen, including: student code, student name, subject code, subject name study, test scores 1, 2, 3, 4, average of the subject, and the status passed or failed in the respective subject.