Deadline: 27.3.2025 22h00
Format: Ex01_MSSV_HoTen.ipynb / Ex02_MSSV_HoTen.ipynb

Exercise 1: Student Management System
Implement a linked list structure to manage student records with the following requirements:
1. Create a student record structure containing:
    o   Student ID
    o   Name
    o   Major
    o   GPA
2. Implement the following functions:
    o   Create an empty linked list to store student records
    o   Add a new student to the beginning of the list
    o   Add a new student to the end of the list
    o   Add a new student after a specific student (by ID)
    o   Display all students in the system
    o   Find a student by ID
    o   Update a student's information (name, major, GPA)
    o   Remove a student from the beginning of the list
    o   Remove a student from the end of the list
    o   Remove a specific student (by ID)
    o   Sort students by GPA (ascending and descending)
    o   Find students with the highest and lowest GPAs
    o   Generate a report showing how many students are enrolled in each major
    o   Save all student data to a file
    o   Load student data from a file
    o   Check if the list is empty
    o   Get the total number of students in the list

Exercise 2: Course Registration System
Implement a linked list structure to manage course registrations with the following requirements:
1. Create a course record structure containing:
    o   Course code
    o   Title
    o   Credits
    o   Instructor name
    o   Maximum enrollment capacity
    o   Current enrollment count
    o   A linked list of enrolled student IDs
2. Implement the following functions:
    o   Create an empty linked list to store course records
    o   Add a new course to the beginning of the list
    o   Add a new course to the end of the list
    o   Add a new course after a specific course (by code)
    o   Display all courses in the system
    o   Find a course by code
    o   Update a course's information (title, credits, instructor, capacity)
    o   Remove a course from the beginning of the list
    o   Remove a course from the end of the list
    o   Remove a specific course (by code)
    o   Register a student for a course (add student ID to the course's student list)
    o   Drop a student from a course (remove student ID from the course's student list)
    o   List all students enrolled in a specific course
    o   Calculate and display enrollment statistics (courses with highest/lowest enrollment)
    o   Sort courses by enrollment count or alphabetically by title
    o   Save all course data to a file

- o   Load course data from a file
- o   Check if the list is empty
- o   Get the total number of courses in the list