ICS4U1 Final Project

For the final project, you will be working in a group of four to create a database system. Examples of such systems are
- booking system (e.g., room reservation, doctor appointments)
- lookup system (e.g., real estate property lookup, product search)
- accounting system (e.g., family budget)
- tracking system (e.g., sport team database for the school)
- simulation (e.g. solar system)
- game (e.g. educational game with a database of questions)

The system must perform a minimum of these functions:
- Add and delete records
- Modify records
- Search records using at least two criteria
- Sort records using at least two criteria
- Load and write records from and to files

In addition, the solution to your system must correctly use the following programming concepts:
- Object oriented design
  - Encapsulation
  - Polymorphism
  - Inheritance
- Array of objects
- File input
- File output
- Sorting
- Searching
- Recursion

Though a graphical user interface is not necessary, your system must have a friendly user interface. Your system should also handle all errors without crashing.