

Development of abstract data types in Python



Objectives

Using Python to solve complex problems

- Implement simple programs using Python
- Implement functions
- Use object-oriented programming



Requirements

Solve the following problems using a class `Book`. Create a console interface for the problem. Cover all possible testing cases for the application.

Class *Book* – information about year, title, number of authors, authors

A. Create an application to manage books:

1. read books
2. print books older than a specified year
3. identify books with at least 2 authors and one author is Smith

B. Features – CRUD on book list (*Operations.py*):

- a. Add a new book to the library
- b. Insert a book to the library
- c. Delete a book from the library
- d. Delete all books written by an author
- e. Delete all books in given period (two years are specified)
- f. Print all books from a certain year
- g. Print all books with title containing a given word
- h. Determine the oldest book
- i. Filter books with author starting with specified letter