

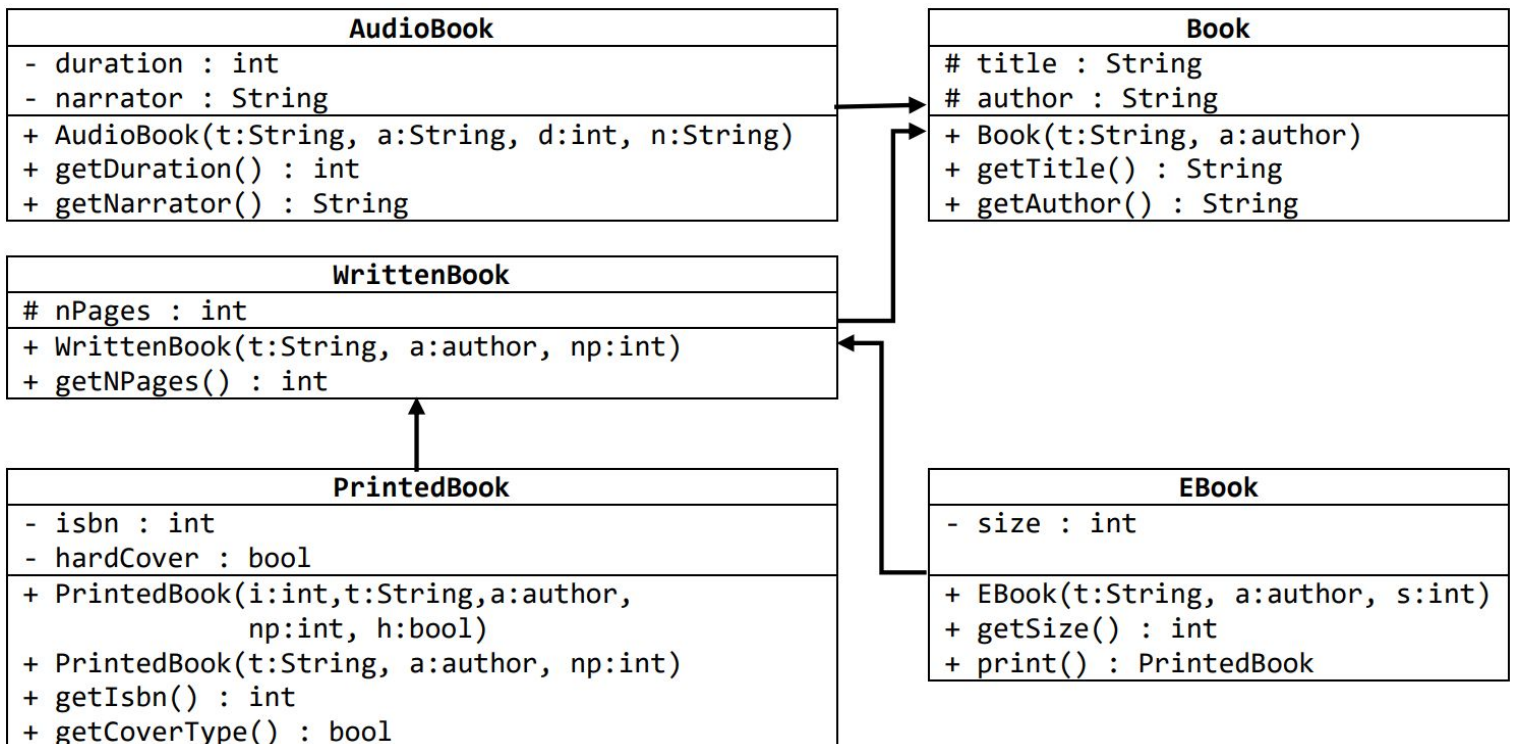
King Saud University  
College of Computer & Information Science  
CSC113 - Lab03  
Relationship between Classes (Inheritance)

---

## Submission rules:

- The project name must be: Lab03\_ID\_FirstName\_LastName.zip. For example: Lab03\_123456789\_Marwan\_Almaymoni.zip
- Use the default package.
- The due date is Wednesday 14/10/2020 11:59 PM via lms.ksu.edu.sa
- Email submissions will not be accepted.

## Lab Exercise 1



Class **Book**:

- title and author: represent the title of the book and its author.
- `Book(ti:string, au:string)`: a constructor that initializes title and author respectively

Class *AudioBook*:

- duration: length of the audio clip in minutes
- narrator: name of the person whose voice is recorded
- AudioBook(ti:string, au:string, du:int, na:string): initializes title, author, duration and narrator respectively.

Class *WrittenBook*:

- count of the pages of the book.
- WrittenBook(ti:string, au:string, np:int): initializes title, author and nPages respectively

Class *PrintedBook*:

- isbn: stores the international standard book number.
- hardCover: it true if the book has a hardcover and false if it has paperback cover.
- PrintedBook(isbn:int, ti:string, au:string, np:int, hc:bool): a constructor that initializes isbn, title, author, nPages and hardCover, respectively.
- PrintedBook(ti:string, au:string, np:int): a constructor that initializes title, author and nPages to the passed arguments respectively, and initializes isbn to 0 and hardCover to false.

Class *EBook*:

- size: storage size of the ebook file in MBs.
- EBook(ti:string, au:string, si:int): initializes title, author and size respectively.
- print(): returns an object of type PrintedBook that has that same title, author and nPages as the current EBook.