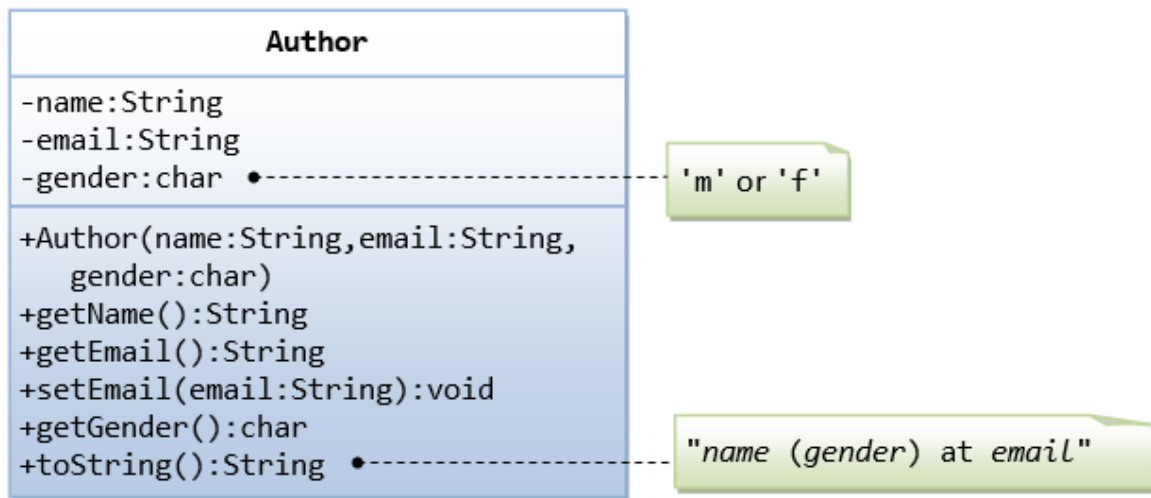


## 1. The Author and Book Classes

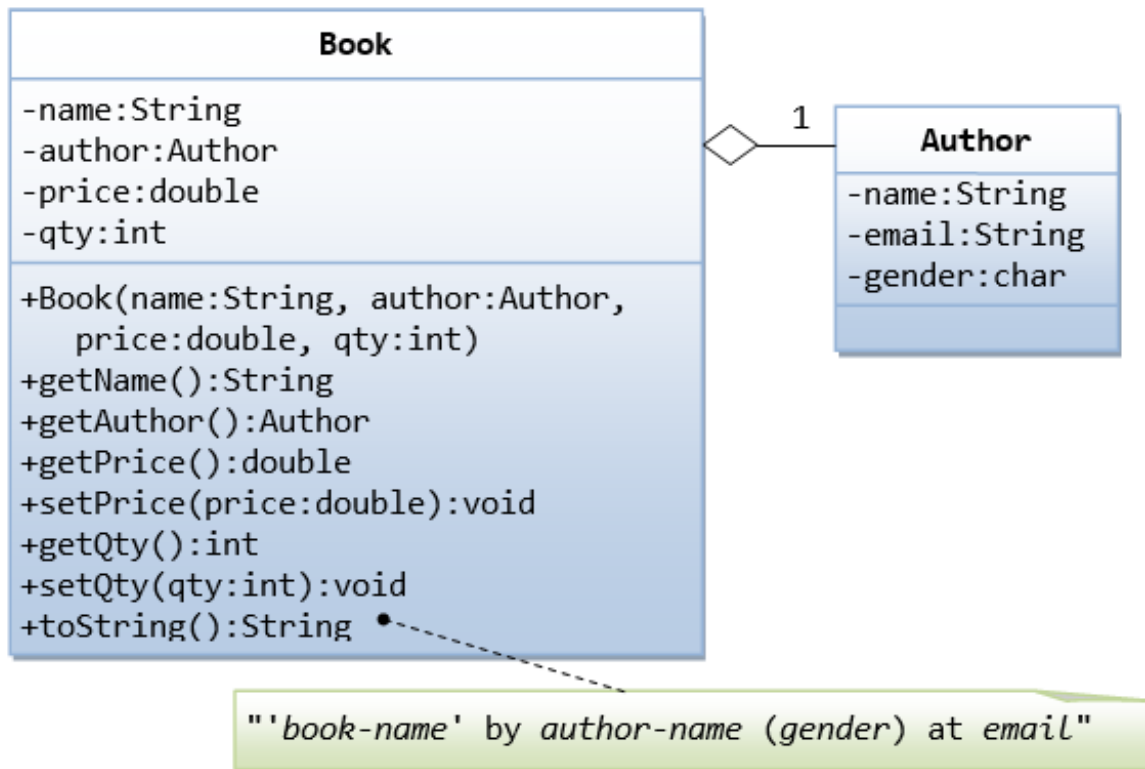
Let's start with the **Author** class



A class called **Author** is designed as shown in the class diagram. It contains:

- Three *private* member variables: *name* (String), *email* (String), and *gender* (char of either 'm' or 'f' - you might also use a *boolean* variable called *isMale* having value of true or false).
- A constructor to initialize *the name, email* and *gender* with the given values. (There is no *default constructor*, as there is no default value for name, email and gender.)
- Public getters/setters: *getName()*, *getEmail()*, *setEmail()*, and *getGender()*. (There are no setters for name and gender, as these properties are not designed to be changed.)
- A *toString()* method that returns "name (gender) at email", e.g., "Abdullah Abdullaev (m) at [abdullah@softclub.tj](mailto:abdullah@softclub.tj)".

## 2. A Book is written by one Author



Let's design a *Book* class. Assume that a book is written by one (and exactly one) *author*. The *Book* class (as shown in the class diagram) contains the following members:

- Four private member variables: *name* (*String*), *author* (an instance of the *Author* class we have just created, assuming that each book has exactly one author), *price* (*double*), and *qty* (*int*).
- The public getters and setters: *getName()*, *getAuthor()*, *getPrice()*, *setPrice()*, *getQty()*, *setQty()*.
- A *toString()* that returns `"'book-name' by author-name (gender) at email"`. You could reuse the *Author*'s *toString()* method, which returns `"author-name (gender) at email"`.