Create a Book object that has a book written by only one author. The class contains the following members:

1. Four `private` data members: `bookTitle` (`string`), `author` (an instance of the class `Author`), `price` (`double`), and `stock` (`int`, with default value of 0). The `price` shall be positive and the `stock` shall be zero or positive. Take note that data member `author` is an instance of the class `Author`, instead of a fundamental types (such as `int`, `double`, `etc.`).

2. The `public` getters and setters for the `private` data members. Take note that `getAuthor()` returns an object (an instance of class `Author`).

3. A method `print()`, which prints
```
Book Title : Java Book
AUTHOR   : Marcus Laurence
GENDER   : Male
E-MAIL   : milaurence@neu.edu.ph
```

4. A method `getAuthorName()`, which returns the `name` of the author of this `Book` instance.

5. Use the BookTest for your reference:

Sample 1:

```
public class BookTest
{
    public static void main(String[] args)
    {
        // Declare and construct an instance of Author
        Author author1 = new Author("Marcus Laurence", "milaurence@neu.edu.ph", "Male");
        author1.print();

        // Declare and construct an instance of Book
        Book bk1 = new Book("Java Book", author1, 1499, 10);
        bk1.print();

        author1.setEmail("cuscus@gmail.com");

        author1.print();
        bk1.print();

        bk1.getAuthor().setEmail("Laurence.marcus@gmail.com");
        bk1.print();
    }
}
```

```
AUTHOR   : Marcus Laurence
GENDER   : Male
E-MAIL   : milaurence@neu.edu.ph

Book Title : Java Book
AUTHOR   : Marcus Laurence
GENDER   : Male
E-MAIL   : milaurence@neu.edu.ph

AUTHOR   : Marcus Laurence
GENDER   : Male
E-MAIL   : cuscus@gmail.com

Book Title : Java Book
AUTHOR   : Marcus Laurence
GENDER   : Male
E-MAIL   : cuscus@gmail.com

Book Title : Java Book
AUTHOR   : Marcus Laurence
GENDER   : Male
E-MAIL   : Laurence.marcus@gmail.com
```

Sample2:

```java
public class BookTest
{
    public static void main(String[] args)
    {
        // Declare and construct an instance of Author
        Author author1 = new Author("Marcus Laurence", "milaurenceneu.edu.ph", "SheMale");
        author1.print();

        // Declare and construct an instance of Book
        Book bk1 = new Book("Java Book", author1, -1499, -10);
        bk1.print();

        author1.setEmail("cuscusgmail.com");

        author1.print();
        bk1.print();

        bk1.getAuthor().setEmail("Laurence.marcusgmail.com");
        bk1.print();
    }
}
```

```
Invalid email! Set to empty string.
Invalid gender! Set to Unknown.
AUTHOR  : Marcus Laurence
GENDER  : Unknown
E-MAIL  :

Note: Price should be positive! Set to 0
Book stocks cannot be negative! Set to 0


Book Title : Java Book
AUTHOR  : Marcus Laurence
GENDER  : Unknown
E-MAIL  :

Invalid email! Set to empty string.
AUTHOR  : Marcus Laurence
GENDER  : Unknown
E-MAIL  :

Book Title : Java Book
AUTHOR  : Marcus Laurence
GENDER  : Unknown
E-MAIL  :

Invalid email! Set to empty string.
Book Title : Java Book
AUTHOR  : Marcus Laurence
GENDER  : Unknown
E-MAIL  :
```