Lab-3

Write a class **Book** with

- Four **private** attributes *id(*int*), ISBN* (int), *Category* (char) and *name (String)*
- One private static attribute *lastID* which keeps track of the number of instances created and assigns the number to the *id* field in the constructor
- The class should have a method getID() and setName(String)
- The class should override *toString()* method
- The class should have one *dumpString()* method to create a String dump of the fields separated by $$ e.g., 1$$1234$$F$$Book1
- The class should have a static *createBook(String)* method to create and return a book instance created from a dumpString.

In the main method, do the following:

Create three books with values

1. b1(1234, F, Book1)
2. b2(2345, T, Book2)
3. b3(3456, C, Book3)
4. Print the books using System.out.println(). The output should look like this:

```
ID:    1
ISBN:   1234
CAT:    F
Name:   Book1

ID:    2
ISBN:   2345
CAT:    T
Name:   Book2

ID:    3
ISBN:   3456
CAT:    C
Name:   Book3
```

5. Now create a dumpString of b1 and print it
6. Then create a new Book instance using this dumpString, and print this. The output should look like this:

```
1$$1234$$F$$Book1$$
ID:    4
ISBN:   1234
CAT:    F
Name:   Book1
```