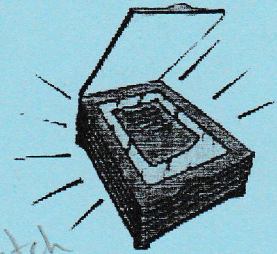


The Scanner Class



```
import java.util.*;
import java.io.*;
```

```
public class MyScanner
{
```

```
    public static void main(String[] args) throws IOException
```

```
    {
        Scanner sc = new Scanner(new File("myNumbers"));
        while (sc.hasNextInt()) {
            int aInteger = sc.nextInt();
            System.out.println(aInteger);
        }
    }
```

```
String input = "1 fish 2 fish red fish blue fish";
sc = new Scanner(input).useDelimiter("\\s*fish\\s*");
```

```
System.out.println(sc.nextInt());
System.out.println(sc.nextInt());
System.out.println(sc.next());
System.out.println(sc.next());
```

```
sc = new Scanner(System.in);
int i = sc.nextInt();
System.out.println(i);
```

```
    sc.close();
```

```
    }
}
```

myNumbers

```
10
20 30 40 50

60
```

Sample Output

```
10
20
30
40
50
60
1
2
red
blue
-2
-2
```

alternative
to try and catch

alert if file
is not there

1 or more space
before Delimiter of String "fish"

closing the scanner

The Scanner Class

```
import java.util.*;
import java.io.*;

public class play
{
    public static void main(String[] args) {
        ArrayList<LibraryBook> books = new ArrayList<LibraryBook>(50);
        int numBooks = inputBooks("library.dat", books);
    }

    public static int inputBooks(String inputFile, ArrayList<LibraryBook> books) {
        int numBooks = 0;
        try {
            Scanner in = new Scanner(new File(inputFile));
            while(in.hasNext())
            {
                Scanner lsc = new Scanner(in.nextLine()).useDelimiter(";");

                String title = lsc.next();
                String name = lsc.next();
                int copyright = lsc.nextInt();
                double price = lsc.nextDouble();
                String genre = lsc.next();

                books.add(new LibraryBook(title,name,copyright,price,genre));
                printRecord(books, numBooks);
                numBooks++;
            }
        } catch (IOException e) {
            System.out.println(e.getMessage());
        }
        return numBooks;
    }

    public static void printRecord(ArrayList<LibraryBook> books, int location) {
        System.out.println("Record #" + (location + 1) + " :\n");
        System.out.println("Title:          " + books.get(location).getTitle());
        System.out.println("Author's Name:  " + books.get(location).getAuthor());
        System.out.println("Copyright:     " + books.get(location).getCopyright());
        System.out.println("Price:         " + books.get(location).getPrice());
        System.out.println("Genre:        " + books.get(location).getGenre() + "\n");
    }
}
```

library.dat

Tom Sawyer;Twain, Mark;1972;8.50;f;

Output on Screen

Record #1 :

Title:	Tom Sawyer
Author's Name:	Twain, Mark
Copyright:	1972
Price:	8.5
Genre:	f