**package** printstream\_scanner;

**import** java.io.FileInputStream;

**import** java.io.FileNotFoundException;

**import** java.io.PrintStream;

**import** java.util.NoSuchElementException;

**import** java.util.Scanner;

**public** **class** Printstream\_Scanner\_Examples {

**void** improperCopyByLine(Scanner scanner, PrintStream printStream)

{

**while** (**true**)

{

String s= scanner.nextLine();

printStream.println(s);

}

}

**void** improperCopyByLine2(Scanner scanner, PrintStream printStream)

{

**try**{

**while** (**true**)

{

String s= scanner.nextLine();

printStream.println(s);

}

}

**catch**(NoSuchElementException e)

{

System.***out***.println("You just ran out of data from your scanner");

}

}

**void** copyByLine(Scanner scanner, PrintStream printStream)

{

**while** (scanner.hasNextLine())

{

System.***out***.println("hasNextLine==true");

String s= scanner.nextLine();

printStream.println(s);

}

}

**void** copyByString(Scanner scanner, PrintStream printStream)

{

**while** (scanner.hasNext())

{

System.***out***.println("hasNext==true");

String s= scanner.next();

printStream.println(s);

}

}

**public** **static** **void** main(String[] args) {

Printstream\_Scanner\_Examples pse = **new** Printstream\_Scanner\_Examples();

Scanner keyboard = **new** Scanner(System.***in***);

// Reading from the keyboard with the Scanner class

pse.improperCopyByLine(keyboard, System.***out***);

//pse.copyByLine(keyboard, System.out);

//pse.copyByString(keyboard, System.out);

// Reading from a File with the Scanner class

**try** {

// A FileInputStream extends InputStream.

// Note that System.in is an InputStream

FileInputStream fi = **new** FileInputStream(args[0]);

Scanner fileScanner = **new** Scanner(fi);

//pse.improperCopyByLine(fileScanner, System.out);

//pse.improperCopyByLine2(fileScanner, System.out);

//pse.copyByLine(fileScanner, System.out);

//pse.copyByString(fileScanner, System.out);

fileScanner.close();

}

**catch** (FileNotFoundException e) {

System.***out***.println("Couldn't find file: "+ args[0]);

}

**catch** (ArrayIndexOutOfBoundsException e){

System.***out***.println("Did you forget to specify a command line argument for the filename");

}

}

}

Output:

|  |  |
| --- | --- |
| (using improperCopyByLine method)  How are you  How are you  next line  next line | (improperCopyByLine dealing with file i/o)  She sells sea shells down by  the sea shore.  Peter Piper picked  ...  Exception in thread "main" java.util.NoSuchElementException: No line found  at java.util.Scanner.nextLine(Unknown Source)  at printstream\_scanner.Printstream\_Scanner\_Examples.improperCopyByLine(Printstream\_Scanner\_Examples.java:14)  at printstream\_scanner.Printstream\_Scanner\_Examples.main(Printstream\_Scanner\_Examples.java:66) |
| (using copyByLine method)  how are you  hasNextLine==true  how are you  next line  hasNextLine==true  next line | (copyByLine dealing with file i/o)  hasNextLine==true  She sells sea shells down by  hasNextLine==true  the sea shore.  hasNextLine==true  Peter Piper picked  hasNextLine==true  ... |
| (using copyByString method)  how are you  hasNext==true  how  hasNext==true  are  hasNext==true  you  next line  hasNext==true  next  hasNext==true  line | (copyByString dealing with file i/o)  hasNext==true  She  hasNext==true  sells  hasNext==true  sea  hasNext==true  shells  hasNext==true  down  hasNext==true  by  hasNext==true  the  hasNext==true  sea  hasNext==true  shore.  hasNext==true  Peter  hasNext==true  Piper  hasNext==true  picked  hasNext==true  ... |