**package** printstream\_scanner;

**import** java.io.File;

**import** java.io.FileInputStream;

**import** java.io.FileNotFoundException;

**import** java.io.FileOutputStream;

**import** java.io.PrintStream;

**import** java.util.Scanner;

**public** **class** Constructors\_Printstream\_Scanner {

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

{

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

{

String s= scanner.nextLine();

printStream.println(s);

}

}

**void** approach1(String inputFileName, String outputFileName)

{

Scanner scanner=**null**;

PrintStream printStream=**null**;

**try**

{

FileInputStream fi = **new** FileInputStream(inputFileName);

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

FileOutputStream fo = **new** FileOutputStream(outputFileName);

//If you want to append to a file, you can use this constructor instead

//FileOutputStream fo = new FileOutputStream(outputFileName, true);

printStream = **new** PrintStream(fo);

copyByLine(scanner, printStream);

}

**catch** (FileNotFoundException e)

{

System.***out***.println("error: "+e);

}

**finally**

{

**if** (scanner != **null**)

scanner.close(); // note this closes the FileInputStream

**if** (printStream != **null**)

printStream.close(); // note this closes the FileOutputStream

}

}

**void** approach2(String inputFileName, String outputFileName)

{

Scanner scanner=**null**;

PrintStream printStream=**null**;

**try**

{

// The File class is kind of like a pathname.

//You can construct a File class even if the object doesn't really exist

File fi = **new** File(inputFileName);

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

File fo = **new** File(outputFileName);

printStream = **new** PrintStream(fo);

copyByLine(scanner, printStream);

}

**catch** (FileNotFoundException e)

{

System.***out***.println("error: "+e);

}

**finally**

{

**if** (scanner != **null**)

scanner.close();

**if** (printStream != **null**)

printStream.close();

}

}

**void** approach3(String inputFileName, String outputFileName)

{

Scanner scanner=**null**;

PrintStream printStream=**null**;

**try**

{

// Big Trouble .... The following compiles, but doesn't do what we want ... WHY?

scanner = **new** Scanner(inputFileName);

// What we really want is:

//scanner = new Scanner("first line \n second line \n third line\n ....");

printStream = **new** PrintStream(outputFileName);

copyByLine(scanner, printStream);

}

**catch** (FileNotFoundException e)

{

System.***out***.println("error: "+e);

}

**finally**

{

**if** (scanner != **null**)

scanner.close();

**if** (printStream != **null**)

printStream.close();

}

}

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

{

Constructors\_Printstream\_Scanner cps = **new** Constructors\_Printstream\_Scanner();

cps.approach1(args[0], args[1]);

//cps.approach2(args[0], args[1]);

//cps.approach3(args[0], args[1]);

}

}

Output:

|  |
| --- |
| cps.approach1(args[0], args[1]);  [Output.txt]  She sells sea shells down by  the sea shore.  Peter Piper picked  ... |
|  |
|  |