Problem 1

Write and test class **MyUtil** with static function **collectTexts** which:

- takes object **Path** (*java.nio.file* package) representing source directory and another corresponding to a destination file;
- finds all files with extension *.txt* in the source directory and its subtree — we assume that all these files are in the same encoding (e.g., Cp1250). Use **Files.walkFileTree** to traverse the directory tree, implement the interface **FileVisitor** (or inherit from **SimpleFileVisitor**) to operate on files; also use file channels (**FileChannel**) and buffers to read/write files;
- contents of all found files should be added to the destination file prepended with a line containing the full name of the source file — destination file has to be in UTF-8 encoding.

The main class should look like this

download *SFileChannels.java*

```
import java.nio.file.*;
public class Main {
    public static void main(String[] args) {
        Path sourceDir = ...
        Path destFile = ...
        MyUtil.collectTexts(sourceDir, destFile);
    }
}
```

Running the program should always produce a new version of the output file, even if it already exists.