## **Tutorial of File**

Designed by ZHU Yueming in 2021. Nov. 1st. Add File read and write demo

## **Objective**

- Learn to read data from a File
- Learn to write data into a File

## **Build the demo**

- Step1. Drag GobangChess.java, GobangTest.java, FileUtil.java, AdvancedFileUtil.java, OriginalFileUtil.java into one generate sources root in your Intellij IDEA project.
- Step2. Create a txt file named <a href="chessboard.txt">chessboard.txt</a> in the root path of your Intellij IDEA project, then add following content. In the demo, this txt file represents a stored chessboard you need to load.

chessboard.txt

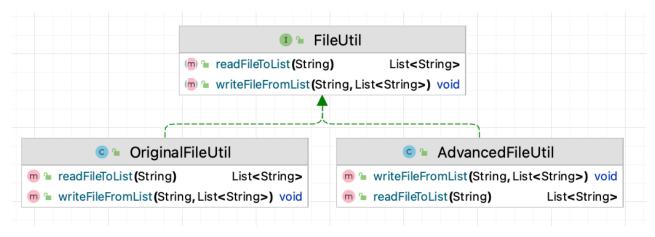
- Step3. After that, check your project structure.
  - If you have build a module:

- Project Source root
  - Current Module Root
    - src
      - AdvancedFileUitI.java
      - FileUtil.java
      - GobangChess.java
      - GobangTest.java
      - OriginalFileUtil.java
  - chessboard.txt
- If you haven't build a module:
  - Project Source root
    - src
      - AdvancedFileUtil.java
      - FileUtil.java
      - GobangChess.java
      - GobangTest.java
      - OriginalFileUtil.java
    - chessboard.txt
- Step4. Run GobangTest.java, then check the output and the new file named new\_chessboard.txt created in this project catalog.

After running, the new\_chessboard.txt would be:

## File Read and Write:

Those three java classes describes two differenct ways of File reading and File writing.



• **OriginalFileUtil**: It provides an original way to read and write a file. If your JDK is lower than 11 version, you should only use this way to do file operation. In this way, we use:

FileReader to read text from character files using a default buffer size.

FileWriter to write text to character files using a default buffer size.

• **AdvancedFileUtil**: It provides a more simple way to read and write a file, but your the version of your JDK should be equaled or higher than 11.