

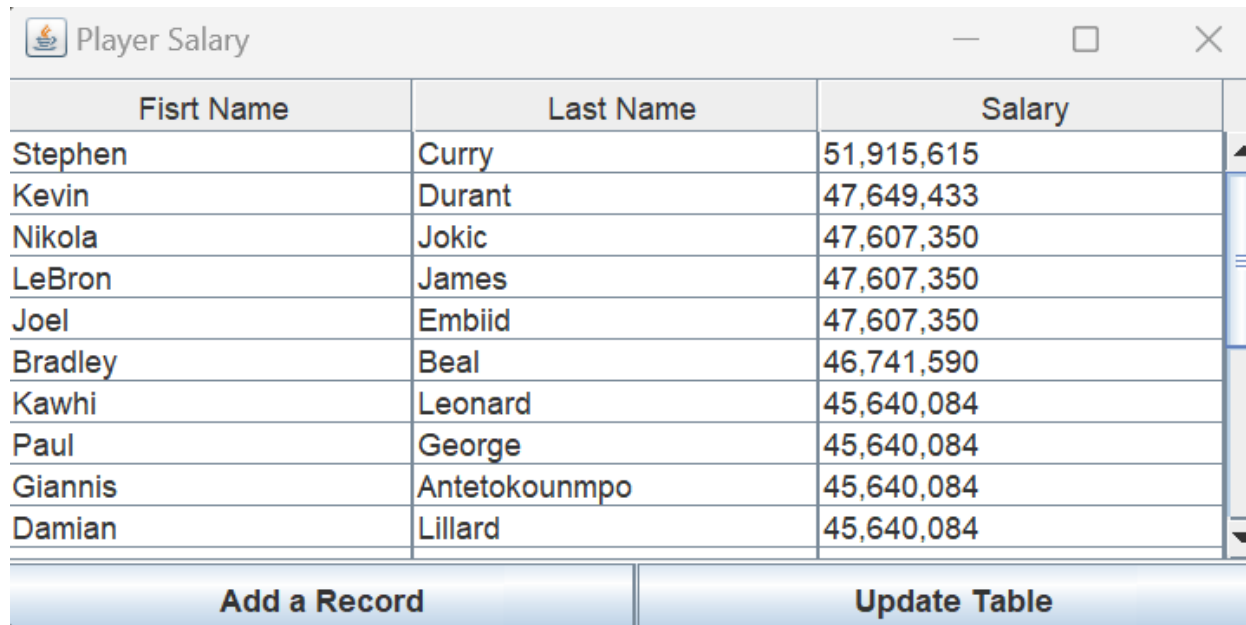
NTOU Java Programming Exercise 7



Exercise-File₁

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- This is a Java application that reads and adds player names and salaries to a file.
- The following is the expected GUI (note that the Table is scrollable via the scrollbar):



Fisrt Name	Last Name	Salary
Stephen	Curry	51,915,615
Kevin	Durant	47,649,433
Nikola	Jokic	47,607,350
LeBron	James	47,607,350
Joel	Embiid	47,607,350
Bradley	Beal	46,741,590
Kawhi	Leonard	45,640,084
Paul	George	45,640,084
Giannis	Antetokounmpo	45,640,084
Damian	Lillard	45,640,084

Add a Record Update Table

Exercise-File₂

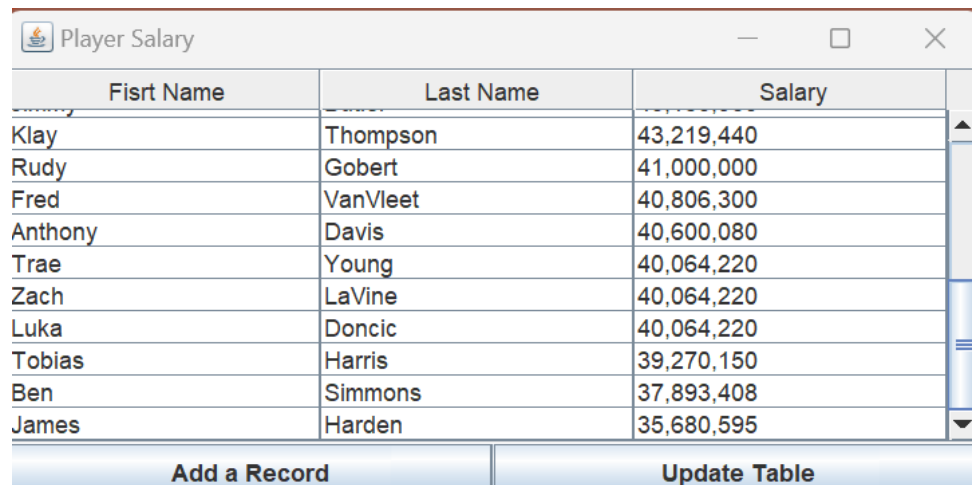
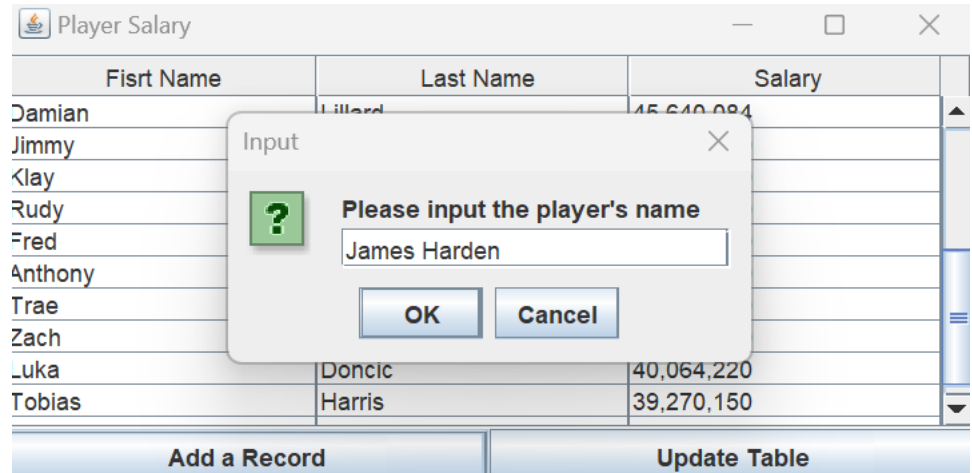
- The player information displayed in the GUI is read from the data in players.txt.

```
1 Stephen Curry 51915615
2 Kevin Durant 47649433
3 Nikola Jokic 47607350
4 LeBron James 47607350
5 Joel Embiid 47607350
6 Bradley Beal 46741590
7 Kawhi Leonard 45640084
8 Paul George 45640084
9 Giannis Antetokounmpo 45640084
10 Damian Lillard 45640084
11 Jimmy Butler 45183960
12 Klay Thompson 43219440
13 Rudy Gobert 41000000
14 Fred VanVleet 40806300
15 Anthony Davis 40600080
16 Trae Young 40064220
17 Zach LaVine 40064220
18 Luka Doncic 40064220
19 Tobias Harris 39270150
20 Ben Simmons 37893408
21
```

(players.txt)

Exercise-File₃

- If clicking [Add a Record], two dialog windows (InputDialog) will appear in sequence to ask for the player name and the player salary respectively.
- After filling in data, the Table in the GUI will be updated (newly added information will be at the end).



Exercise-File₄

- If you modify the text file directly, then go back to the application and click [Update Table], the data will also be updated according to the content of the text file.
- ▣ Please note that fields in each line must be separated by blanks or tabs, and no unnecessary blanks shall be left at the end of each line.

Exercise-File₅

- Please first understand the program flow of the three classes: Player, PlayerInfoReader, and PlayerInfoWriter.
- Please modify them:
 - ▣ Most of the program logic has been implemented. Please search //TODO to fill in the core logic:
 - PlayerInfoReader: Please convert the data read into Player objects, and then put them into ArrayList.
 - PlayerInfoWriter: Please actually write the data (first name, last name and salary) into the file.
 - ▣ After completing the modification, it is recommended to test whether the two programs can be executed correctly (in the main method).
 - ▣ Note: PlayerInfoWriter uses FileWriter which can write files continuously, which is slightly different from the textbook (no modification is required).

Exercise-File₆

- Finally, please understand the program flow of SalaryViewer, and modify it:
 - ▣ Most of the program logic has been implemented. Please search `//TODO` to fill in required code related to reading and writing files. (The code is very short)

Hint

- Understand the process of reading and writing files.
- Understand basic usage of ArrayList.
- The way of combining JTable with reading and writing files can be used as a reference for your final project.

Submission

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- The naming should conform to the CamelCase style.
- “Package” is required: `ntou.cs.java2024`.
- Please submit `.java` files and `.class` files (upload them to TronClass).
- Code that fails to compile or execute is not accepted.