

Seneca College

Applied Arts & Technology

SCHOOL OF COMPUTER STUDIES

JAC444

Submission date:

Date

Workshop 7

Description:

The following workshop lets you practice basic java coding techniques, creating classes, methods, using arrays, Java I/O, inheritance, polymorphism, Exceptional Handling, JavaFx (GUI), Lambda expressions, Functional Interface, Collection Framework.

Task 1:

In workshop 6 we used baby name ranking files, this workshop going to use the same files,

Part – 1.

- a. Write a program that prompts the user to enter one of the *filenames* from baby ranking and displays the names that are used for both genders in the file.
- b. Use Lists to store the names and find common names in two lists.

Here is a sample run:

```
Enter a file name for baby name ranking: babynamesranking2010.txt
68 names used for both genders
They are Charlie Emerson Morgan ...
```

Part – 2.

- a. Sort all names for boys and girls in their lists.
- b. Remove the duplicates.
- c. Display the sorted names individually
- d. Design out own output for this part.
- e. For sorting method from Collection interface.

Task 2: (Design your own output for this you are free to use JavaFX or not)

Assume that **25** countries and their capitals are stored in a map. Your program should prompt the user to enter a country and should display the capital for that country.

Workshop Header

```

/*****

```

Workshop #

Course:<subject type> - Semester

Last Name:<student last name>

First Name:<student first name>

ID:<student ID>

Section:<section name>

This assignment represents my own work in accordance with Seneca Academic Policy.

Signature

Date:<submission date>

```

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```

Code Submission Criteria:

Please note that you should have:

- Appropriate indentation.
- Proper file structure
- Follow java naming convention
- Document all the classes properly
- Do Not have any debug/ useless code and/ or files in the assignment
- Do not have everything in the *main method*.
- Have a separate TestClass with the main method in it.
- Check your inputs if the user is not entering garbage inputs.
- Use exceptional handling or other methods to let the user know if the inputs are incorrect.

Deliverables and Important Notes:

All these deliverables are to be uploaded on the blackboard once done.

- You are supposed to create video/ record voice/ detailed document of your running solution. **(20%)**
 - Screen Video captured file should state your last name and id, like Ali_123456.mp4 (or whatever the extension of the file is)
 - Record voice clip should also include a separate word file with the screen shots of your program's output, state your last name and id, like Ali_123456.mp3 (or whatever the extension of the file is)
 - Detailed document should include screen shots of your output, have your name and id on the top of the file and save the file with your last name and id, like li_123456.docx (or whatever the extension of the file is).
- A word/ text file which will reflect on learning of your concepts in this workshop. Also include the instructions on how to run your code. **(30%)**
 - Should state your Full name and Id on the top of the file and save the file with your last name and id, like Ali_123456.txt
- Submission of working code. **(50%)**
 - Make sure your follow the “**Code Submission Criteria**” mentioned above.
 - You should zip your whole working project to a file named after your Last Name followed by the first 3 digits of your student ID. For example, **Ali123.zip**.
- Your marks will be deducted according to what is missing from the above-mentioned submission details.
- For Late submissions, please refer to the late policy for the course.
- Remember that you are encouraged to talk to each other, to the instructor, or to anyone else about any of the assignments, but the final solution may not be copied from any source.