Homework 5

Write a class for a music track. The class declares private instance variables for title, artist, duration, and rating (rating is decimal number between 0…5). Write contructors, setters and getters, toString and other methods that you need.

In main method you have a java.util.ArrayList for music tracks. Add some objects to the ArrayList.

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- Sort the tracks alphabetically by title. Use Comparable<T> interface.
- Sort the tracks by rating in descending order. Use here Comparator<T> interface.
- Sort the tracks alphabetically by artist. Use here lambda expression.
- Choose the tracks of the selected artist and sort those by duration in ascending order. Use here Stream API.

Copy the program code and examples of the results of your program in one document (Word, pdf, rtf etc.), and submit the document to Moodle.