CSC319 – JAVA STREAMS API – REVIEW EXERCISE

Due date: 15 May 2025, by NOON on CSCMS
Instruction: Work the following problems and zip all your answers into one (1) single *.zip* file for submission.

Q1. Consider the code below, where you can find definitions of the related classes and variables in the accompanied ***.zip*** file. You task in this question is to refactor the given code using the Streams API and lambda expressions. Write a Java application to verify that your refactored code works correctly. Here is the additional requirements:

- You must write one (1) Java file only. This file should compile together with the provided Java code to produce the executable Java application;
- Prepare this Java file in such a way that both the original code (method) and the refactored code (method) co-exist in the same class.

```
// Here is the code to be refactored
     public Set<String> findLongTracks(List<Album> albums) {
        Set<String> trackNames = new HashSet<>();
        for(Album album : albums) {
           for (Track track : album.getTrackList()) {
              if (track.getLength() > 60) {
                 String name = track.getName();
                 trackNames.add(name);
              }
           }
        }
        return trackNames;
     }
```