

## SENG1110 Programming Assignment 1 - Semester 1, 2023

### MUSIC COLLECTION - Help to Start

This document aims to provide some initial steps to help you start assignment 1. Note that you do not have to follow these steps exactly. There are many other ways to complete the assignment.

It is suggested that, each time you implement a new method, you test it before proceeding. Bug-finding can be much harder if your code is built on untested methods.

#### Step 1

Write an initial version of Song.java. There is a template available on Canvas that may help.

Declare instance variables using the assignment specification. Compile, and fix any errors.

Implement some get and set methods. Again, compile, and fix any errors.

#### Step 2

Write an initial version of SongCollection.java. There is a template available on Canvas that may help.

Test your Song class using SongCollection. Here is some example code:

```
Scanner console = new Scanner(System.in);
String name = console.nextLine("Enter name: ");
Song s = new Song();
s.setName("Garota de Ipanema");
System.out.println("Name: " + s.getName());
```

Compile and run. Fix any problems.

After testing, remember to delete the above lines. They were used only for testing.

#### Step 3

Write an initial version of Album.java. There is a template available on Canvas that may help.

Test your Album class using SongCollection.java. Here is some example code.

```
Scanner console = new Scanner(System.in);
String name = console.nextLine("Enter name: ");
Album a = new Album();
a.setName("The best of bossa nova");
System.out.println("Name: " + a.getName());
```

Compile and run. Implement more methods of Album. Again, these lines, is just for initial test.

#### Step 4

Add code to SongCollection.java that presents a menu of options to the user. Make the program exit for a certain selected option. Compile and test before proceeding.

#### Step 5

Add code to your program, implementing each functionality in the assignment specification. Compile, run, and test your program as you go.

As stated above, these steps just provide a starting point. Depending on what questions are received from students, we will add information to Canvas and send an email to let you all know. Remember to **use the discussion board to post your questions**, but DO NOT post your code.