



Introduction to Programming

Pass Task 6.2: Album File Handling

Overview

This task allows you to build an application that reads in an album with multiple tracks from a file then displays the album and track information to the terminal.

Purpose: Learn how to declare and work with arrays of records and enumerations.

Task: Demonstrate the use of:

- Arrays
- Enumerations
- Records
- Loops

in the context of the requirements for the next stage of the Music application as described in this document.

Time: This task should be started in the lab class in Week 6.

Resources: [Flanagan, D. & Matsumoto, Y. 2008 The Ruby Programming Language, O'Reilly.](#)

[Pine, C 2014, *Learn to Program \(2nd Ed\)*, Chapter 11, The Pragmatic Programmer \(library version – follow the link\)](#)

Submission Details

You must submit the following files to Doubtfire:

- Code for the program, and a screenshot of it working at the terminal.

Make sure that your task has the following in your submission:

- Code must follow the Ruby coding convention used in the unit (layout, and use of case).
- You are storing and working with multiple values in an array.
- You are using records/classes and an enumeration to store the values.
- The code must run and you must capture a screenshot that shows it working in accordance with the requirements as described here along with any clarifications provided by your tutor.

Instructions

In this task you will build on the skills developed in your other Pass and Tutorial tasks.

You will be given feedback on how well you design your code as well as how well you name your artifacts. There is a minimum requirement for naming and design before your code can be accepted regardless of how well the code is functioning.

The program must read in a **single** album and a number of tracks for the album as well as a genre for the album **from a file**. You can have as many genres as you like, but these must be defined using an enumeration. **For each track you must read in a track name and a track filename so re-purpose the code from task 5.1 (and also 5.2 for the album information).**

Your application must read the album and track information **from the provided album.txt** file (see the Resources for this task). Use the provided code *album_file_handling.rb* as a basis for your program.

The output of your program should look as follows:

```
192-168-1-101:6.2 P Album File Handling mmitchell$ ruby music_record_answers.rb
Neil Diamond
Greatest Hits
Genre is 1
Pop
Crackling Rose
sounds/01-Cracklin-rose.wav
Soolaimon
sounds/06-Soolaimon.wav
Sweet Caroline
sounds/20-Sweet_Caroline.wav
192-168-1-101:6.2 P Album File Handling mmitchell$
```

Note: This is one of the tasks you need to **submit to Doubtfire**. Tutors should give guidance and perhaps feedback in the tutorial class.

Check the assessment criteria for the important aspect your tutor MAY check when assessing your finished portfolio.

End of Task