



# Introduction to Programming

## Tutorial Task 5.1: Track File Handling

### Overview

- Purpose:** Enhance a simple Ruby program which reads custom data types (records) from a file and writes them to the terminal.
- Task:** Loop to Read in a number of records and place them in an array, then loop to print them out.
- Submit To:** Canvas when complete
- Time:** This task should be started in your fifth lab class.
- Resources:** [Flanagan, D. & Matsumoto, Y. 2008 The Ruby Programming Language, O'Reilly.](#)  
[Pine, C 2014, \*Learn to Program \(2<sup>nd</sup> Ed\)\*, Chapter 11, The Pragmatic Programmer \(library version – follow the link\)](#)

### Submission Details

You must submit the following files to Canvas:

- Basic *track\_file\_handling.rb* source code
- Screenshot of the window showing the execution of your program.

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

- The program must read and print a number of tracks from file.
- Code must follow the Ruby coding convention used in the unit (layout, and use of case).
- The code must run and the screenshot show it working.
- Your program must have a *main* procedure.
- Your program must have the indicated variables and use them appropriately.

## Instructions

Use the code provided (from this task's resources in Canvas) to get started.

You must enhance the code provided as follows (you may need to reuse some code from Tutorial task 5.1):

- Complete the provided code so that it reads in an array of tracks then prints them out.

The program output (using the file input.txt in the Resources) should look as follows:

```
MacBook-Pro-6:TuteTasks mmitchell$ ruby music_tracks_only.rb
Crackling Rose
sounds/01-Cracklin-rose.wav
Soolaimon
sounds/06-Soolaimon.wav
Sweet Caroline
sounds/20-Sweet_Caroline.wav
MacBook-Pro-6:TuteTasks mmitchell$
```

Once the task is complete you can submit it for assessment, which will help prepare it for your portfolio.

1. Use your preferred screenshot program to take a screenshot of the program's window, as this is one of the things you will need to submit.
2. Login to Canvas, and locate Tutorial Task 5.1.
3. Change the status of the task to **Ready To Mark**
4. Upload your completed code and the screenshot.

**Note:** This is one of the tasks you need to **submit to Canvas**. 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