Note: Do not include your name, student ID or any personally identifiable info in your submission as the submission may be used for peer reviews; your submission will not be lost as Canvas keeps track of these internally.

Please follow all of the steps below in the given sequence:

1. Read all unread announcements and unread replies to announcements under Canvas→Announcements.

2.1 Do any missed tutorials before going further.

2.2 Watch any unwatched recordings of the compulsory **Weekly Live Lecture** and any important videos in the Extra Videos Playlist.

2.3 If you need help in addition to what has been shown in the compulsory weekly live lecture, you are also expected to speak to your **group tutor via discussion forums** and attend/watch their live sessions. Please note that group tutors cannot debug your assessment code on your behalf as debugging is a part of every programming assessment.

2.4 **If you still have have any unresolved questions** or **if you need further feedback**, post the relevant parts of your submitted work in a new post under Canvas→Discussions→Tutorial discussions and ask from your group tutor. E.g. you can ask "*In the live lesson Gayan did ___ with ___. I didn't do ___ so should I be doing this as well?*", etc. Please note that the university requires teaching to be conducted in an equitable manner so your tutors will require you to post questions in the discussion forums.

3. Check any available feedback of your previous submissions and if you have any unresolved questions or if you need further feedback, post the relevant parts of your submitted work in a new post under Canvas→Discussions→Tutorial discussions and ask from your tutor. E.g. you can ask "*Gayan showed _____ but I did mine like _____, so which is the better approach and why?*", etc. Please note that the university requires teaching to be conducted in an equitable manner so please only use email for matters such as special consideration.

4. Follow the materials under Canvas→Modules→Week 10…

5.1 With the help of your group tutor via the forums, modify the object oriented (OO) version of the MusicLibrary so that it reads song data from a file.

You can create a plain text file named 'songs.csv' where each song's data are stored in the following format on separate lines:

<song title>,<song location>

Where <song title> is a particular Song object's title and <song location> is that same Song object's location.

To achieve this, create a method named 'loadSongs' where you read songs.csv one line at a time and create new Song objects as you go. Think of an appropriate way to invoke/call this method and do so.

5.2 With the help of your group tutor, create a method named 'saveSongs' which will save all of the Song objects in the format given in 5.1 above, to the 'songs.csv' file. Find out if you would overwrite the file or if you would update the file.

5.3. (Optional) Do the same for Renovation Project Manager.

6. If you have not submitted your final version of A3, add comments explaining your plan. Note that this will not be marked but it is to help you progress.

Submission Checklist:
1. Ensure that your code does not have any red dots (Java errors) as code with such errors cannot be tested/marked and will receive 0 for that submission. If your code has red-dots, refer back to similar code and fix the error or remove the code that is causing the problem. You must not leave any commented out code in your submissions. Yellow dots are warnings and these are different.
2. Ensure that you have added comments to your .java file explaining what you have done and any potential alternative approaches.
3. Format your code (e.g. Eclipse→Source→Format).
4. Go to Canvas→Assignments→**Independent Investigative Effort 10** and select 'submit assignment'.
5. Select to attach files from your computer, navigate to your Eclipse workspace folder→Project folder→src folder and select the (one) final version of your `MusicLibrary.java and Song.java` file. Optionally, you can also submit your songs.csv file. Please **do not submit any other files** as doing so delays the marking process. You can also context select on the .java file name from package/project explorer inside Eclipse and find its exact location. Only the last submission is the official submission.
5. Verify your submitted files as shown during the week 1 session.

Having trouble with usernames, passwords, access, etc.? Please call the [RMIT IT Service and Support Centre](#) for quick help on 03-9925 8888 and remember to ask for a reference number and pass it on to your instructor.

Need extensions or special consideration? Please follow details and process below:
https://www.rmit.edu.au/students/student-essentials/assessment-and-exams/assessment/special-consideration