

ARRAYLISTS

Arraylists are very useful. They are similar to arrays, but can grow and shrink in size.

Arraylists can only contain objects, not primitive data types.

Please see the notes on arraylists for more details.

TODO:

Write a program that makes an arraylist of some sort of object that you might want to have a list or collection of. For example: songs, favourite movies, contacts, books, etc.

This object should have at least 3 data fields in it (e.g title, year, and something else).

You can create this class as an inner class in your main class if you wish, since it will be a small class.

Your program should do the following:

- Make the array list (this could be a global variable)
- Add some items
- Print out the arraylist (this could be in a method)
- Delete some items (see errors below)
- Print the arraylist again.

You need to demonstrate the following:

- ◆ using a for-each loop
- ◆ deleting an object based on the properties of the object, not based on the object location in the arraylist.

You need to avoid the following errors:

- x `ConcurrentModificationException` when deleting in a for-each loop
- x skipping over an item when deleting consecutive items.
For example, if you delete all movies that were made in 2020, and there are two consecutive movies that need to be deleted, often the second one gets skipped over and does not get deleted.