**ArrayList and LinkedList in Java**

1. **ArrayList challenge:**

* Create a program that implements a simple mobile phone with the following capabilities.
* Able to ***store***, ***modify***, ***remove*** and ***query*** contact names.
* You will want to create a separate class for ***Contacts*** (***name*** and ***phone number***).
* Create a master class (MobilePhone) that holds the **ArrayList of Contacts**.
* The **MobilePhone** class has the functionality listed above.
* Add a menu of options that are available.
* Options:
  + Quit
  + Print list of contacts
  + Add new contact
  + Update existing contact
  + Remove contact and search/find contact.
* When adding or updating be sure to check if the contact already exists (use name).
* Be sure ***not to expose the inner workings of the Arraylist to MobilePhone*** (e.g. no ints, no .get(i) etc.)
* MobilePhone ***should do everything with Contact objects only***.

1. **LinkedList challenge:**

* Create a program that implements a playlist for songs.
* Create a ***Song*** class having ***Title*** and ***Duration*** for a song.
* The program will have an ***Album*** class containing a list of songs.
* The albums will be stored in an **ArrayList**.
* Songs from different albums can be added to the playlist and will appear in the list in the order they are added.
* Once the songs have been added to the playlist, create a menu of options to:
* Quit.
* Skip forward to the next song.
* Skip backwards to a previous song.
* Replay the current song.
* List the songs in the playlist.
* A song must exist in an album before it can be added to the playlist (so you can only play songs that you own).
* As an optional extra, provide an option to remove the current song from the playlist (HINT: ***listiterator.remove()***)