CSCI-101 Pre-lab Assignment

Week of Nov 7

Problem Description

In the **hw** directory of your repository, create a directory named Database. Change your working directory to Database. Please push to GitHub and update your repository's README file when complete.

Use Friday's lecture code as a pattern to complete this assignment.

Song.csv
Create a file named **Song.csv**. The file will contain data about 10 of your favorite songs.

The first line in the file should contain the following header line:

AlbumName,ArtistName,SongName,SongDuration

Add to the file 10 additional lines that include data for 10 of your favorite songs. Include songs from at least 3 different artists. Each line should be a comma separated list that includes the data specified in the header line. SongDuration holds the duration of the song (in seconds). Spaces are allowed in the album name, artist name, and song name.

Song.java
Write a class named **Song** that models a song. Include the following in the class:

- Private fields for all of the data specified in the **Song.csv** header line.
  - albumName (String)
  - artistName (String)
  - songName (String)
  - songDuration (int)

- A constructor that take the the album name, artist name, song name, and song duration as arguments and sets the fields with the data passed in. Do not worry about input validation.

- Getters and Setters for all of the fields.

- Override the Object class' toString method. The method should return a useful string.

SongApp

Write a class named **SongApp** that opens **Song.csv** for reading, scans the data in the file, creates 10 instances of the Song class using the data, and stores the instances in an array. Create a **printArray** method that prints the contents of the array and call **printArray** after you've populated the array in main.