Chapter 10 Movies

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Instructions:

Create a class **Movie**with the following attributes: **title**, **release\_year**, **story\_year**. Create appropriate setter and getter methods.

Download the comma separated data file:  [MarvelMovies.csv](https://mchenry.instructure.com/courses/1471377/files/73372623?wrap=1" \o "MarvelMovies.csv" \t "_blank)[Download MarvelMovies.csv](https://mchenry.instructure.com/courses/1471377/files/73372623/download?download_frd=1)

Create a program that reads in the comma separated data file and loads the data from each line into a Movie object. Each line of data contains title, release year, and story year in that order. Store the Movie objects in a list. Use try-except as appropriate.

 Hint: Remember to strip off the newline and split the data using commas.

Display the movies in alphabetical order. Format the data into columns with appropriate headings.

 Hint: Iterate through a sorted list of the movie titles and use a nested loop to display the details for each movie.

**Classes**:

|  |
| --- |
| Movie |
| - title: String  - release\_year: String  - story\_year: String |
| + get\_title  + get\_releaseYear  + get\_storyYear  + set\_title  + set\_releaseYear  + set\_storyYear  + displayRow |

**Data**:

Class

- Movie: title, release\_year, story\_year

Variables:

- movies: Array of Movie, global variable

- lines: read from data file

- title, release\_year, story\_year: values from each row from file

- movie: Movie()

**Processing**:

1. Import csv (able to read cells by separating by commas)
2. Open MarvelMovies.csv file and assign to lines
3. Loop through lines and assign the title, release year, and story\_year to local variables
4. Create movie = Movie() from those values
5. Append the new movie to the movies array
6. Sort movies array by title in alphabetical order
7. Loop through movies array and display formatted row with title, release\_year, and story\_year

**Output**:

1. Has a table header of Title, Release Year, and Story Year
2. Will display movies from movies array by title in alphabetical order.

**Example**:

Title Release Year Story Year

Ant-Man 2015 2015

Ant-Man and the Wasp 2018 2018