Movie Rating System - Loops

1. Find the Longest Movie Title

- **Instructions:** Given `movieTitles = ["Inception", "The Dark Knight", "Interstellar"]`, write a loop to find the movie with the longest title and log its name.

2. Calculate the Average Rating

- **Instructions:** Use `movieRatings = [8.3, 7.5, 9.0, 8.7]` to write a loop that calculates the average rating of these movies. Log the result.

3. Reverse the Movie List

- **Instructions:** Take `movieTitles = ["Inception", "The Dark Knight", "Interstellar"]` and write a loop to create a new array with the movie titles in reverse order. Log the new array.

4. Increase Movie Ratings

- **Instructions:** For `movieRatings = [8.3, 7.5, 9.0, 8.7]`, write a loop to add 0.5 to each movie's rating. Log the updated list of ratings.

5. Filter Movies by High Ratings

- **Instructions:** With `movieRatings = [8.3, 7.5, 9.0, 8.7]`, use a loop to create a new list of ratings over 8.0. Log this new list.

6. Count a Specific Rating's Occurrence

- **Instructions:** Given `movieRatings = [8.3, 8.7, 9.0, 8.7, 8.3]` and `specificRating = 8.7`, count how many times this rating appears. Log the count.

7. Find Movies in Both Watched and Wish Lists

- **Instructions:** With `watchedList = ["Inception", "The Dark Knight"]` and `wishList = ["Interstellar", "Inception"]`, create a list of movies that are in both arrays. Log this list.

8. Check Ratings Against a Threshold

- **Instructions:** Using `movieRatings = [8.3, 7.5, 9.0, 8.7]` and a threshold `minRating = 8.0`, write a loop to verify if all movies in the array have ratings above this threshold. Log whether this is true or false.

9. Identify the Maximum Rating

- **Instructions:** From `movieRatings = [8.3, 7.5, 9.0, 8.7]`, write a loop to find the highest rating. Log this rating.

10. Find the Highest Rating

- Task: Given an array `movieRatings = [8.3, 7.5, 9.0, 8.7]`, use a loop to determine the highest rating and log this value.

Bonus Questions

11. Calculate Averages from a Rating List

- Task: You have a 2D array `ratingsList = [[8, 7, 9], [6, 8, 7], [9, 9, 10]]` where each sub-array contains ratings for a movie. For each movie, calculate its average rating using a loop, then log each average.

12. Display Ratings as a Bar Chart

- Instructions: For an array `movieRatings = [8, 5, 9]`, write a loop that prints out each rating as a bar (e.g., "Movie 1: ********") to visually represent the rating scale with asterisks (*).

13. Order Ratings in Ascending Sequence

- Instructions: Take the array `movieRatings = [8.3, 7.5, 9.0, 8.7]` and reorder its elements

in ascending order manually using a sorting algorithm implemented with loops. Log the sorted ratings array.

14. Calculate Total Ratings from Review Matrix

- Given a 2D array `reviewMatrix = [[7, 8.5], [6, 9], [8, 7.5]]` where each sub-array contains ratings from different reviews for movies, sum all ratings and log the total.

15. Find the Movie with Highest Rating in Each Category

- In a matrix `ratingMatrix = [[7, 8.5], [6, 9], [8, 7.5]]`, identify the movie with the highest rating in each category (column) and log the highest rating per category.

16. Count Critically Acclaimed Movies in Each Genre

- Given a 2D array `genreAcclaimMatrix = [[5, 7], [8, 6], [9, 7]]` representing the acclaim level of movies, count how many critically acclaimed movies (acclaim level ≥ 7) there are in each genre and log the counts.

17. Sum of Ratings for Blockbuster Movies by Genre

- For a ratings matrix `blockbusterRatingMatrix = [[7, 8.5], [9.5, 9], [8, 7.5]]`, calculate and log the sum of ratings for each genre where the rating is greater than 8.5.

18. Average Rating of Movies by Director

- With a director rating matrix `directorRatingMatrix = [[7, 8.5], [6, 9], [8, 7.5]]`, where each row represents a different director and columns represent ratings for their movies, calculate the average rating for each director and log the averages.