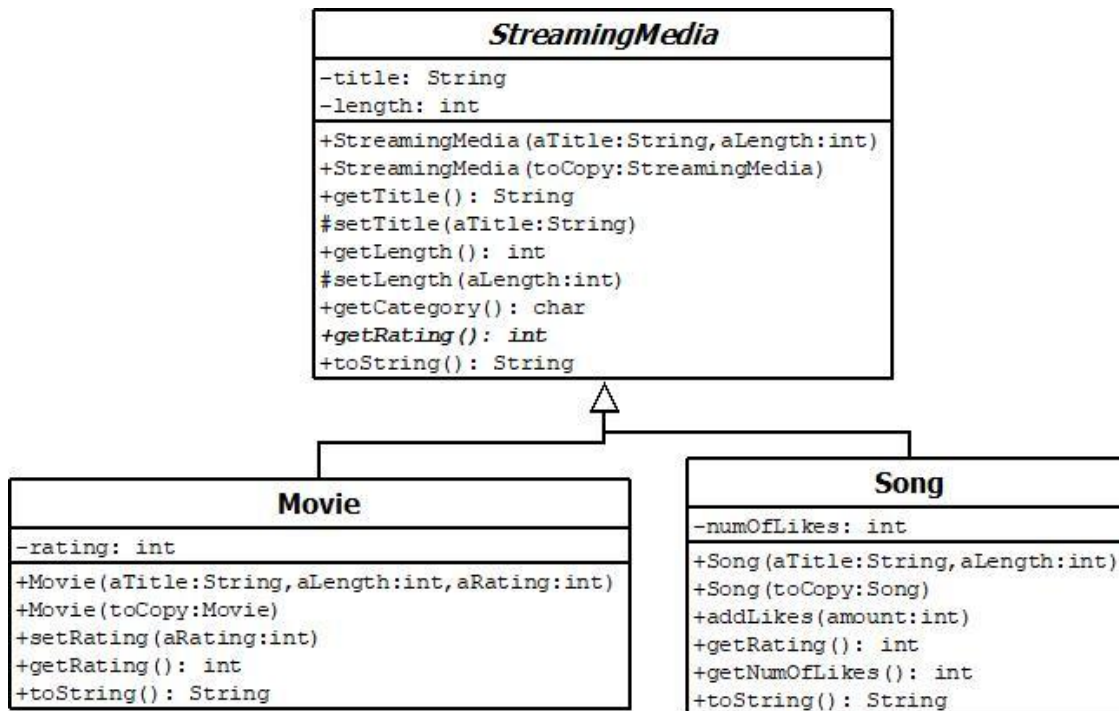


## CPSC 233 – Coding Challenge 4 – Practice 1



Note that # indicated protected access. Bold and italics indicates abstract.

**Streaming Media class:** Must be an abstract class. The ***title*** should be stored in all upper case. The method ***getCategory*** calls ***getRating*** (which is abstract) to get rating. Category values based on rating value: 'A' if 9 or 10; 'B' if 7 or 8; 'C' if 5 or 6; 'D' if 3 or 4, and 'F' otherwise. The ***length*** should be initialized to 10 and must be positive (greater than zero). Ignore negative length numbers. Format returned by ***toString***: 'Title: <title> Length: <length>'

**Movie class:** ***rating*** must be a value between 0 and 10 (inclusive). If the rating provided is outside of that range, the rating should remain unchanged. Format returned by ***toString***: 'Title: <title> Length: <length> Rating: <rating>'.

**Song class:** ***numOfLikes*** should be initialized to zero and updated by ***addLikes***. Likes cannot decrease. ***Rating*** is based on ***numOfLikes***: 9 if ***numOfLikes*** >= 5000, 7 if ***numOfLikes*** >= 500, 5 if ***numOfLikes*** >= 50, 3 if ***numOfLikes*** >= 10, 1 otherwise. Format returned by ***toString***: 'Title: <title> Length: <length> Likes: <numOfLikes>'.

**Notes:** Do not duplicate instance variables from parent class in child class. Instead invoke appropriate super constructor and methods in parent class.