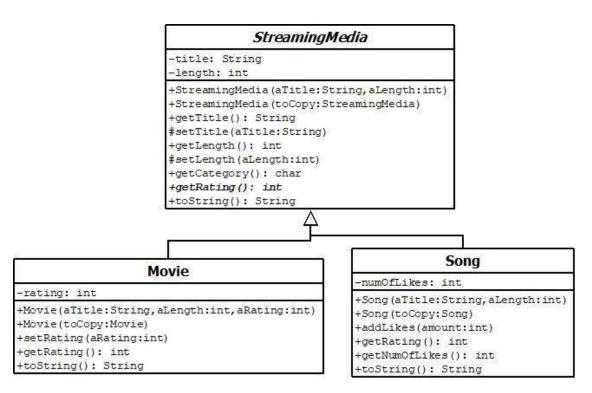
## CPSC 219 - Coding Challenge 4 - Practice 1



Note that # indicated protected access.

**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.