public class Movie {

private String title;

private String studio;

private String rating;

a) Constructor for the class Movie

public Movie(String title, String studio, String rating) {

this.title = title;

this.studio = studio;

this.rating = rating;

}

b) Constructor with default rating of "PG"

public Movie(String title, String studio) {

this(title, studio, "PG"); }

public String getTitle() {

return title;

}

public void setTitle(String title) {

this.title = title;

}

public String getStudio() {

return studio;

}

public void setStudio(String studio) {

this.studio = studio;

}

public String getRating() {

return rating;

}

public void setRating(String rating) {

this.rating = rating;

}

c) Method getPG

public static Movie[] getPG(Movie[] movies) {

int count = 0;

for (Movie movie : movies) {

if ("PG".equals(movie.getRating())) {

count++;

}

}

Movie[] pgMovies = new Movie[count];

int index = 0;

for (Movie movie : movies) {

if ("PG".equals(movie.getRating())) {

pgMovies[index] = movie;

index++;

}

}

return pgMovies;

}

d) Create an instance of the class Movie

public static void main(String[] args) {

Movie casinoRoyale = new Movie("Casino Royale", "Eon Productions", "PG-13");

System.out.println("Title: " + casinoRoyale.getTitle());

System.out.println("Studio: " + casinoRoyale.getStudio());

System.out.println("Rating: " + casinoRoyale.getRating());

}

}