Assignment3-10

public class MovieDetails {  
 private String movieName;  
 private String actor;  
 private String actress;  
 private String genre;  
 public MovieDetails(String movieName, String actor, String actress, String genre) {  
 super();  
 this.movieName = movieName;  
 this.actor = actor;  
 this.actress = actress;  
 this.genre = genre;  
 }  
  
  
 public String getMovieName()  
 {  
 return movieName;  
 }  
  
 public String getActor()  
 {  
 return actor;  
 }  
  
 public String getActress()  
 {  
 return actress;  
 }  
  
 public String getGenre()  
 {  
 return genre;  
 }  
  
 public void setMovieName(String movieName)  
 {  
 this.movieName = movieName;  
 }  
  
 public void setActor(String actor)  
 {  
 this.actor = actor;  
 }  
  
 public void setActress(String actress)  
 {  
 this.actress = actress;  
 }  
  
 public void setGenre(String genre)  
 {  
 this.genre = genre;  
 }  
  
 public String toString()  
 {  
 return "MovieName: "+this.movieName+" Actor: "+this.actor+" actress: "+this.actress+" genre: "+this.genre+" ";  
 }  
}

import java.util.ArrayList;  
import java.util.Comparator;  
import java.util.List;  
import java.util.Scanner;  
  
public class assignment3010 {  
 static assignment3010 *answer*=new assignment3010();  
  
 public static ArrayList<MovieDetails> *details*= new ArrayList<> ();  
  
 static Scanner *scan*= new Scanner(System.*in*);  
  
 public static void main(String[] args) {  
  
 System.*out*.print("Enter the number of movies to be added : ");  
 int number=*scan*.nextInt();  
  
 for (int j=0;j<number;j++){  
  
 System.*out*.print("Enter the name of movie : ");  
 String movieName=*scan*.next();  
  
 System.*out*.print("Enter the name of actor : ");  
 String actorName=*scan*.next();  
  
 System.*out*.print("Enter the name of actress : ");  
 String actressName=*scan*.next();  
  
 System.*out*.print("Enter the genre of movie : ");  
 String genre=*scan*.next();  
  
 *details*.add(new MovieDetails(movieName,actorName,actressName,genre));  
 }  
  
 *printSortedMovieList*(*details*);  
  
 System.*out*.print("\nIf you wish to add a movie then type 'add' \tor\nIf you wish to remove a movie then type 'remove' \tor\nIf you want to find a movie then type 'search' : ");  
 String response=*scan*.next();  
  
 while(!response.equals("no"))  
 {  
 if (response.equals("add")) {  
 System.*out*.print("Enter the name of movie : ");  
 String movieName=*scan*.next();  
  
 System.*out*.print("Enter the name of actor : ");  
 String actorName=*scan*.next();  
  
 System.*out*.print("Enter the name of actress : ");  
 String actressName=*scan*.next();  
  
 System.*out*.print("Enter the genre of movie : ");  
 String genre=*scan*.next();  
  
 *details*.add(new MovieDetails(movieName,actorName,actressName,genre));  
 break;  
 }  
  
 if (response.equals("remove")) {  
 System.*out*.print("enter the movieName : ");  
 String man=*scan*.next();  
 *answer*.removeMovies(man);  
 break;  
 }  
  
 if (response.equals("search")) {  
 System.*out*.print("enter the movieName : ");  
 String man=*scan*.next();  
 *answer*.find\_movie\_By\_mov\_Name(man);  
 break;  
 }  
 }  
 *printSortedMovieList*(*details*);  
  
 }  
  
 public static void sort(ArrayList<MovieDetails> movieDetails,Comparator<MovieDetails> movieDetailsComparator){  
 movieDetails.stream().sorted(movieDetailsComparator).forEach(e -> System.*out*.println(e));  
  
 }  
  
 public static void printSortedMovieList(ArrayList<MovieDetails> movieDetails){  
  
 Comparator<MovieDetails> com = new Comparator<MovieDetails>() {  
 public int compare(MovieDetails a, MovieDetails b) { return a.getMovieName().compareTo(b.getMovieName());}  
 };  
  
 *sort*(movieDetails,com);  
 }  
  
 public void addMovie(MovieDetails movie)  
 {  
 *details*.add(movie);  
 }  
  
 public void removeMovies(String movieName)  
 {  
 *details*.removeIf(t -> t.getMovieName().equals(movieName));  
 }  
  
 public void removeAllMovies(List<MovieDetails> movies) {  
 for(MovieDetails s :movies)  
 {  
 removeMovies(s.getMovieName());  
 }  
 }  
  
 public MovieDetails find\_movie\_By\_mov\_Name(String movieName) {  
 MovieDetails s= *details*.stream().filter(c -> c.getMovieName().equals(movieName)).findAny().get();  
 return s;  
 }  
  
 public List<MovieDetails> find\_movie\_By\_Genre(String genre) {  
 List<MovieDetails> l = new ArrayList<>();  
 *details*.stream().filter(c -> c.getGenre().equals(genre)).forEach(e -> l.add(e));  
 return l;  
 }  
  
 public static Comparator<MovieDetails> sortAccordingly(String sortBy) {  
 Comparator<MovieDetails> comp = new Comparator<MovieDetails>() {  
 public int compare(MovieDetails a, MovieDetails b)  
 {  
 return a.getMovieName().compareTo(sortBy);  
 }  
 };  
 return comp;  
 }  
}