# **ZMovies**

**Grade settings**: Maximum grade: 100

Disable external file upload, paste and drop external content: Yes

**Based on**: ZMovies **Run**: Yes **Evaluate**: Yes **Automatic grade**: Yes

ZMovies is a popular website for reviewing movies. They have planned to provide movie details and ratings through an online platform so they can encourage the youths to watch movies in theatres instead of on an OTT platform. The company hires a software developer to help with their process. You, being the software developer, develop a Java program based on the requirement.

## **Component Specification: MovieMain Class**

Type (Class)	Attributes	Methods
MovieMain		Getter and setter methods
	Map <string,< td=""><td>for the attribute are</td></string,<>	for the attribute are
	Float> movieDetailsMap included in the code	
		skeleton.

**Note:** Here the movieDetailsMap, holds the Key as movieName and Value as rating.

### Requirement 1: Filter the movie record based on the movie name

Type (Class)	Methods	Responsibilities
MovieMain	public float <b>findMovieRating</b> (String movieName)	This method accepts movie name as argument. If the movie name is found in the Map, return the movie's rating. Else return -1.  condition: movieName is case insensitive

### Requirement 2: Filter the movies based on the highest rating

Type (Class)	Methods	Responsibilities
MovieMain	List <string> find/Movies WithHighestRating()</string>	This method filters the movies and returns the list of movie names that satisfy

below-mentioned condition

Condition: All the movie whose rating is greater than 4 is considered as the Highest rating and it needs to be added to the list

You are provided with the main method as code template and it is excluded from evaluation.

#### Note:

- In the Sample Input / Output provided, the highlighted text in bold corresponds to the input given by the user, and the rest of the text represents the output.
- Ensure to follow the object-oriented specifications provided in the question description.
- Ensure to provide the names for the classes, attributes, and methods as specified in the question description.
- Adhere to the code template, if provided.

### Sample Input/Output 1:

Enter number of records to be added:

3

Enter the Movie records (Movie Name: Rating):

Spider Man No Way Home: 5.0

The Dark Knight Rises:3.0

Inception:2.0

Enter the movie name needs to be searched

Inception

The names of the movies with the highest rating are:

Spider Man No Way Home

# Sample Input/Output 2:

Enter number of records to be added:

2

Enter the Movie records (Movie Name: Rating):

Interstellar:3.0

### Man of Steel:4.0

Enter the movie name needs to be searched

#### Tenent

Tenent is an invalid movie name

No movies were found with highest rating

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                         private Map<String, Float> movieDetailsMap = new HashMap<String,Float>();
                         public Map<String, Float> getMovieDetailsMap() {
   return movieDetailsMap;
                         public void setMovieDetailsMap(Map<String, Float> movieDetailsMap) {
    this.movieDetailsMap = movieDetailsMap;
                         public float findMovieRating(String movieWame) 
                            // Fill the code here
                         public List<String> findMoviesWithHighestRating()
                            // Fill the code here
                         return null;
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{
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                                                        // Fill the code here
                                                                                                                                                                                                                                                                                                                              0
                                                         return 31,7159
                                                                                                                                                                                                                                                                                                                              public static void main(String args[])
{
                                                         // Main method is excluded from evaluation.
// Please don't change the code
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// Prease on Consequence come
MovieMain Dook-new MovieMain();
ListString, list1-new ArrayListString>();
MapString, Float> map=new HashMapOstring,Float>();
Scanner sc-new Scanner(System.in);
System.out.println("Enter number of records to be added:");
int n=sc.nextln(t);
System.out.println("Enter the Movie records (Movie Name : Rating):");
String [] bookbetails = new String[n];
sc.nextLine();
bookDetails[i] = sc.nextLine();
}
                                                         }
for(int i=0;i<bookDetails.length;i++) {
   String[] a = bookDetails[i].split(":");</pre>
                                                                                                                                                                                                                                                                                                                              П
                                                                map.put(a[0], Float.parseFloat(a[1]));
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String [] bookbetails = new String[n];
sc.nextLine();
for(int i-egi:n;i++) {
   bookDetails[i] = sc.nextLine();
}
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                                       }
for(int i=0;i<bookDetails.length;i++) {
   String[] a = bookDetails[i].split(":");</pre>
                                                                                                                                                                                                                     <u>o</u>-
                                          map.put(a[0], Float.parseFloat(a[1]));
                                          book.setMovieDetailsMap(map);
                                                                                                                                                                                                                     System.out.println(search; is an invalid movie name");
                                          System.out.println(rating);
                                       }
listi-book.findMoviesWithHighestRating();
if(listi|=null && listi.size()>=)) {
    system.out.println("The names of the movies with the highest rating are:");
    for(String s:listi)
{
    Sustem.out.println("());
}
                                               System.out.println(s);
                                           System.out.println("No movies were found with highest rating");
                                                                                                                                                                                                                     (3)
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