App details(---RETIRED---)

Grade settings: Maximum grade: 100
Disable external file upload, paste and drop external content: Yes
Based on: App details(---RETIRED---)
Run: Yes **Evaluate**: Yes
Automatic grade: Yes

Olivia has a habit of developing new apps and launching them on play store. She would like to maintain the record of apps with low ratings, so that she can work on those apps to improve its feature. The manager intimates you to help in the process. You, being a software developer, help them in developing a Java program based on the requirement.

Component Specification: AppInfoMain

Type (Class)	Attributes	Methods
AppInfoMain	private Map<String,Double> appMap	Getter and setter methods for the attribute are included in the code skeleton.

Note: *key: appName value: rating for appMap attribute*

Requirement 1: Find rating of the given app and return the same

Type (Class)	Methods	Responsibilities
PlacementMain	public double **findAppRating**(String appName)	This method accepts appName as an argument. If the appName is present on the Map, it must return the rating of the given appName. Else return -1. ***condition****:* *appName is case-sensitive*

Requirement 2: Find the appName's with low rating

Type (Class)	Methods	Responsibilities

AppInfoMain	public List<String> **findAppsWithLowRating**()	This method filters the apps with low rating and returns the list of appName. ***Condition:*** *apps with rating less than or equal to 3 are considered as low rating*

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:

5

Enter the details (App name : rating):

Duolingo:4

Udemy:4.6

Shopsy:2.7

Picsart:2.9

KineMaster video editor:3.6

Enter the app name to be searched

picsart

Rating of picsart app is 2.9

Apps with low rating are

Picsart

Shopsy

Sample Input/Output 2:

Enter number of records to be added:

3

Enter the details (App name : rating):

Spotify:1.7

pay hub:4.7

crop doctor:2.8

Enter the app name to be searched

twitter

twitter is an invalid app name

Apps with low rating are

crop doctor

Spotify

Sample Input/Output 3:

Enter number of records to be added:

3

Enter the details (App name : rating):

Spotify:4.3

pay hub:4.7

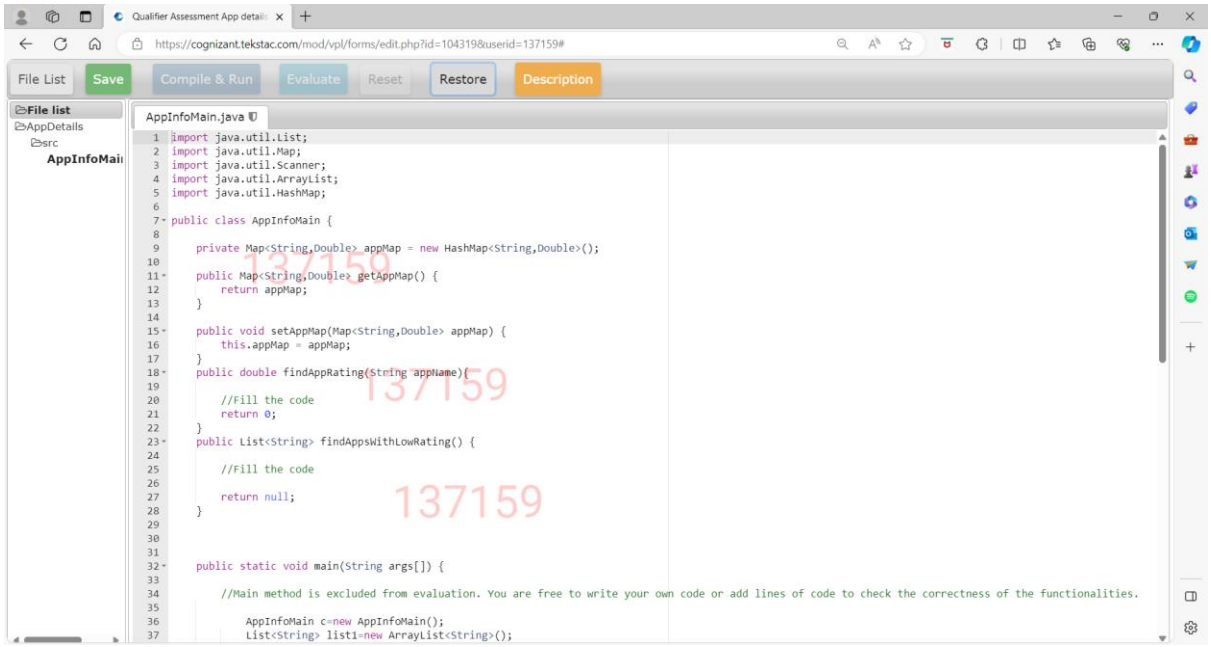
crop doctor:3.8

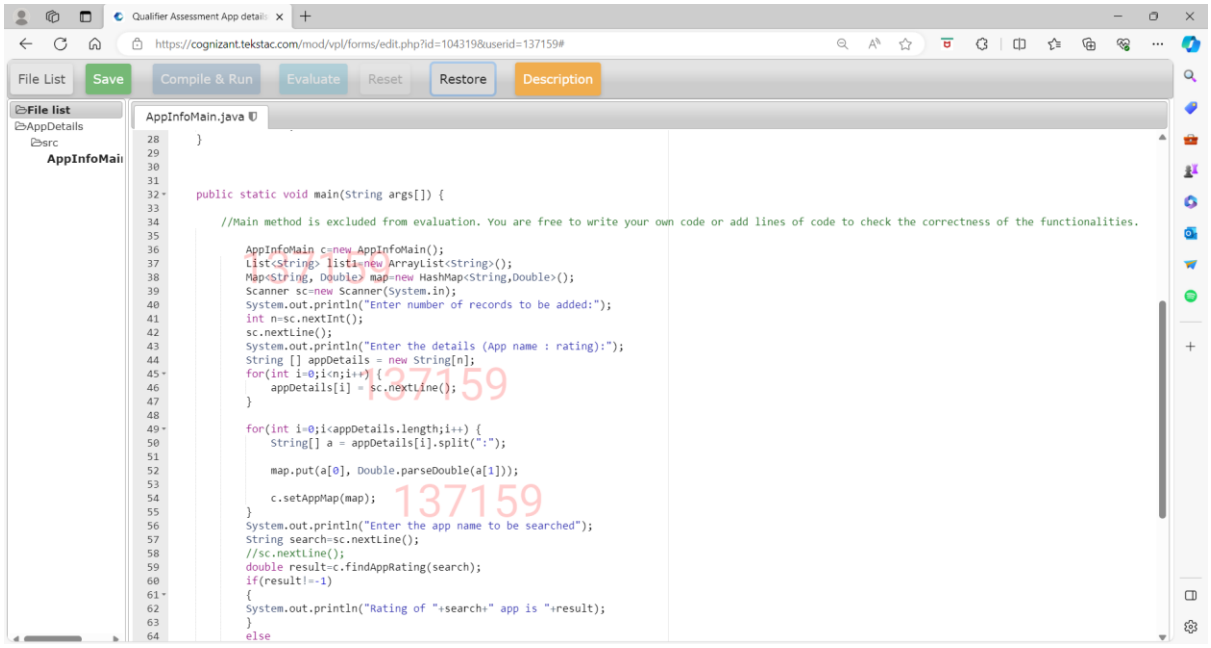
Enter the app name to be searched

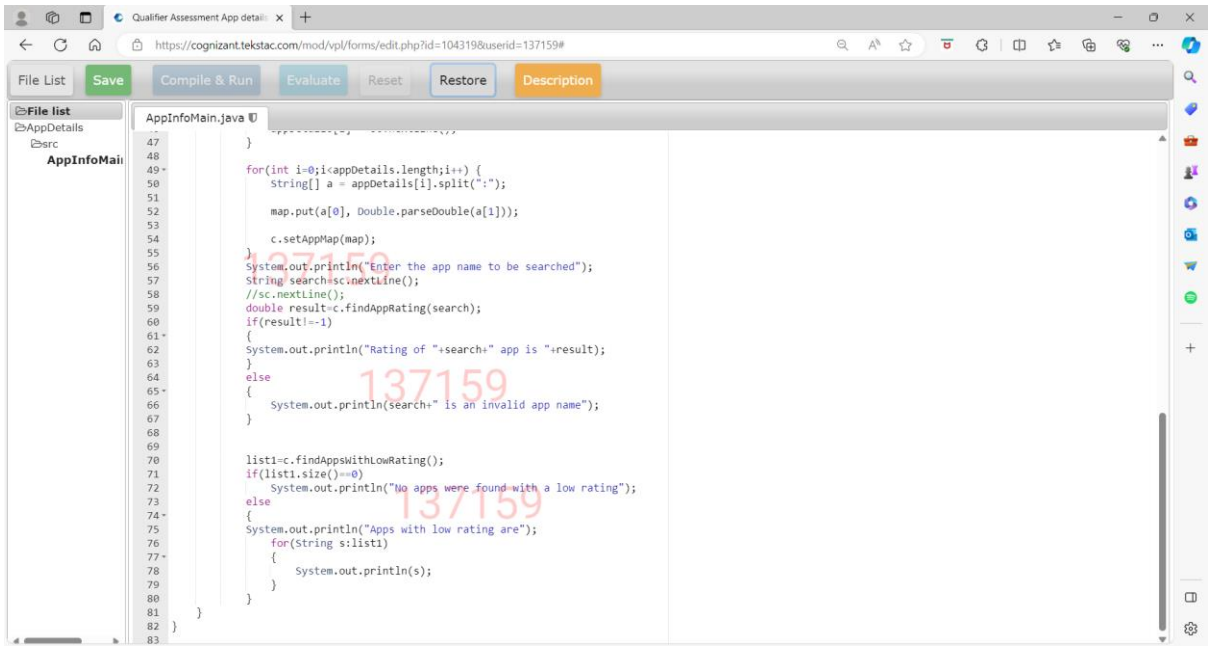
Spotify

Rating of Spotify app is 4.3

No apps were found with a low rating




Qualifier Assessment App details
https://cognizant.tekstac.com/mod/vpl/forms/edit.php?id=104319&userid=137159#
File List
Save
Compile & Run
Evaluate
Reset
Restore
Description
File list
AppDetails
src
AppInfoMai
AppInfoMain.java
}
public static void main(String args[]) {
//Main method is excluded from evaluation. You are free to write your own code or add lines of code to check the correctness of the functionalities.
AppInfoMain c=new AppInfoMain();
List<String> list1=new ArrayList<String>();
Map<String, Double> map=new HashMap<String,Double>();
Scanner sc=new Scanner(System.in);
System.out.println("Enter number of records to be added:");
int n=sc.nextInt();
sc.nextLine();
System.out.println("Enter the details (App name : rating):");
String [] appDetails = new String[n];
for(int i=0;i<n;i++) {
appDetails[i] = sc.nextLine();
}
for(int i=0;i<appDetails.length;i++) {
String[] a = appDetails[i].split(":");
map.put(a[0], Double.parseDouble(a[1]));
c.setAppMap(map);
}
System.out.println("Enter the app name to be searched");
String search=sc.nextline();
//sc.nextLine();
double result=c.findAppRating(search);
if(result!=-1)
{
System.out.println("Rating of "+search+" app is "+result);
}
else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}
for(int i=0;i<appDetails.length;i++) {
String[] a = appDetails[i].split(":");
map.put(a[0], Double.parseDouble(a[1]));
c.setAppMap(map);
}
System.out.println("Enter the app name to be searched");
String search=sc.nextline();
//sc.nextLine();
double result=c.findAppRating(search);
if(result!=-1)
{
System.out.println("Rating of "+search+" app is "+result);
}
else
{
System.out.println(search+" is an invalid app name");
}
list1=c.findAppsWithLowRating();
if(list1.size()==0)
System.out.println("No apps were found with a low rating");
else
{
System.out.println("Apps with low rating are");
for(String s:list1)
{
System.out.println(s);
}
}
}
}