Fareley Exam prep(---RETIRED---)

Grade settings: Maximum grade: 100
Disable external file upload, paste and drop external content: Yes
Based on: Fareley Exam prep
Run: Yes **Evaluate**: Yes
Automatic grade: Yes

Fareley Exam Prep offers coaching for government exam candidates. They are selecting aspirants enrolled in their course for the super batch to provide special training based on their tier 1 exam scores. As a software developer, you assist them in developing a Java program based on the requirements."

Component Specification: AspirantMain Class

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

Note: key: rollNumber value:markScored for aspirantMap attribute

Requirement 1: Find the mark scored by the given aspirant based on the rollNumber

Type (Class)	Methods	Responsibilities
AspirantMain	public double **findAspirantMark**(String rollNumber)	This method accepts **rollNumber** as an argument. If the rollNumber is present on the Map, it must return the markScored. Else return -1. ***condition:*** *rollNumber is case-sensitive*

Requirement 2: Filter the aspirants selected for super batch

Type (Class)	Methods	Responsibilities
AspirantMain	public List<String> **findAspirantsSelectedForTheSuperBatch**()	This method filters the aspirants based on the below

		condition and returns the result as a List containing the rollNumber of the aspirants selected for super batch ***Condition:*** *Aspirants whose markscored is greater than or equal to* ***80*** *are selected for super batch*

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 (Roll number : mark scored):

FRL201:76.8

FRL202:65.9

FRL203:87.6

FRL204:73

FRL205:93

Enter the roll number to be searched

FRL202

Mark scored by the aspirant FRL202 is 65.9

Aspirants selected for the super batch are

FRL205

FRL203

Sample Input/Output 2:

Enter number of records to be added:

5

Enter the details (Roll number : mark scored):

FRL201:76.8

FRL202:65.9

FRL203:67.6

FRL204:78

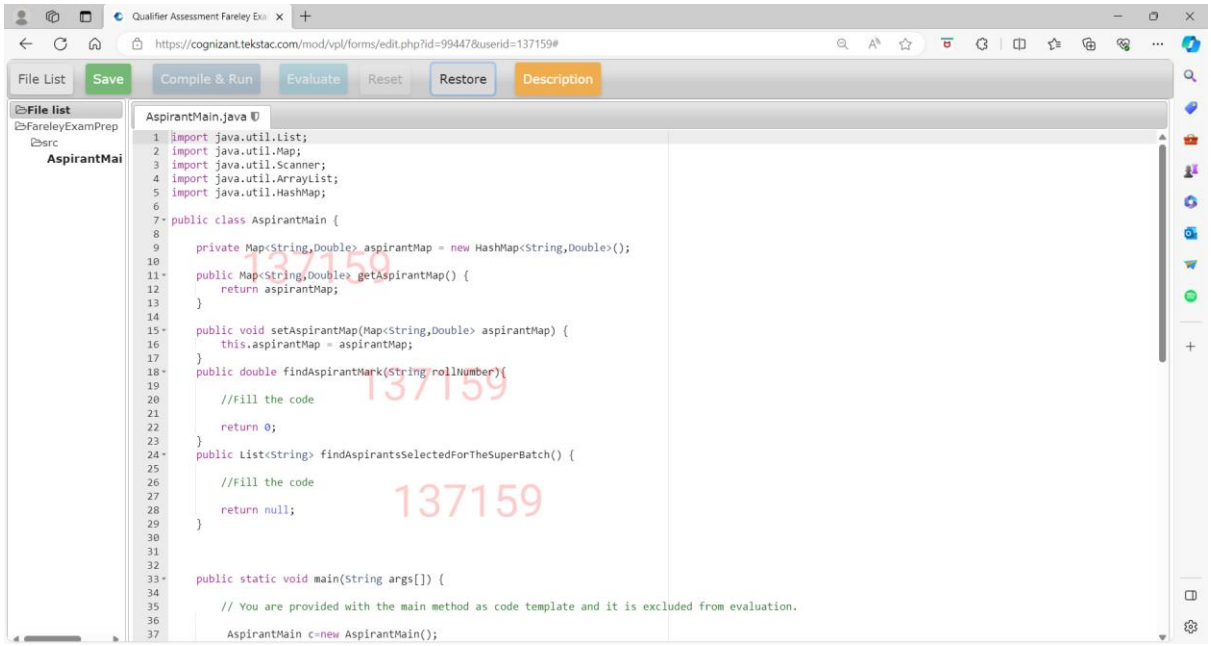
FRL205:59

Enter the roll number to be searched

FRL222

FRL222 is an invalid roll number

None of the aspirants were selected for super batch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File List
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Compile & Run
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Description
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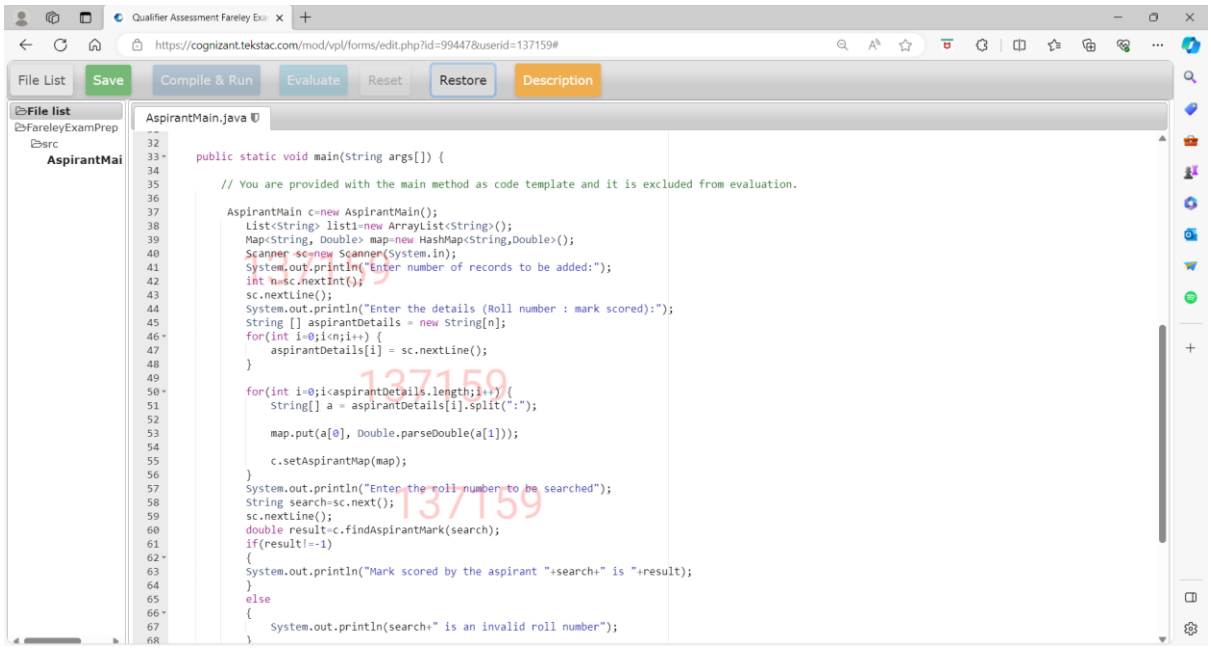
AspirantMai
AspirantMain.java
import java.util.List;
import java.util.Map;
import java.util.Scanner;
import java.util.ArrayList;
import java.util.HashMap;
public class AspirantMain {
private Map<String,Double> aspirantMap = new HashMap<String,Double>();
public Map<String,Double> getAspirantMap() {
return aspirantMap;
}
public void setAspirantMap(Map<String,Double> aspirantMap) {
this.aspirantMap = aspirantMap;
}
public double findAspirantMark(String rollNumber){
//Fill the code
return 0;
}
public List<String> findAspirantsSelectedForTheSuperBatch() {
//Fill the code
return null;
}
public static void main(String args[]) {
// You are provided with the main method as code template and it is excluded from evaluation.
AspirantMain c=new AspirantMain();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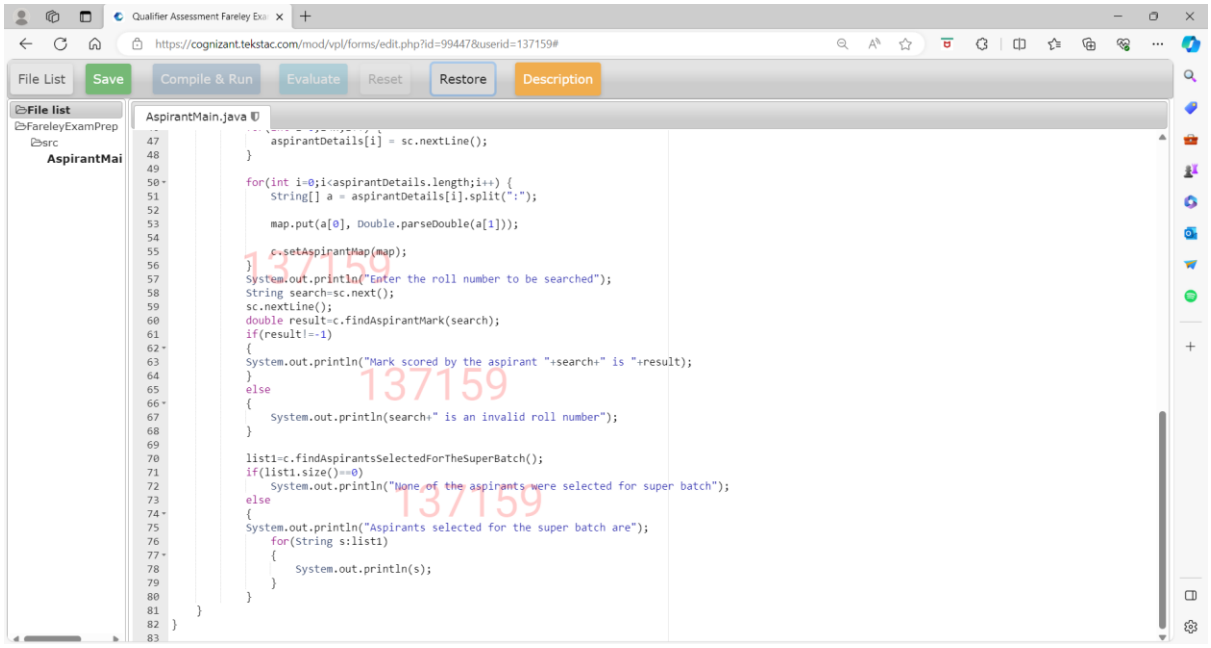
AspirantMai
AspirantMain.java
public static void main(String args[]) {
// You are provided with the main method as code template and it is excluded from evaluation.
AspirantMain c=new AspirantMain();
List<String> list1=new ArrayList<String>();
Map<String, Double> map=new HashMap<String,Double>();
Scanner 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 (Roll number : mark scored):");
String [] aspirantDetails = new String[n];
for(int i=0;i<n;i++) {
aspirantDetails[i] = sc.nextLine();
}
for(int i=0;i<aspirantDetails.length;i++) {
String[] a = aspirantDetails[i].split(":");
map.put(a[0], Double.parseDouble(a[1]));
c.setAspirantMap(map);
}
System.out.println("Enter the roll number to be searched");
String search=sc.next();
sc.nextLine();
double result=c.findAspirantMark(search);
if(result!=-1)
{
System.out.println("Mark scored by the aspirant "+search+" is "+result);
}
else
{
System.out.println(search+" is an invalid roll number");
}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AspirantMain.java
aspirantDetails[i] = sc.nextLine();
}
for(int i=0;i<aspirantDetails.length;i++) {
String[] a = aspirantDetails[i].split(":");
map.put(a[0], Double.parseDouble(a[1]));
c.setAspirantMap(map);
}
System.out.println("Enter the roll number to be searched");
String search=sc.next();
sc.nextLine();
double result=c.findAspirantMark(search);
if(result!=-1)
{
System.out.println("Mark scored by the aspirant "+search+" is "+result);
}
else
{
System.out.println(search+" is an invalid roll number");
}
list1=c.findAspirantsSelectedForTheSuperBatch();
if(list1.size()==0)
System.out.println("None of the aspirants were selected for super batch");
else
{
System.out.println("Aspirants selected for the super batch are");
for(String s:list1)
{
System.out.println(s);
}
}
}
}
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