

Fareley Exam prep

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. <i>condition: rollNumber is case-sensitive</i>

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

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

Qualifier Assessment Fareley Exam

https://cognizant.tekstac.com/mod/vpl/forms/edit.php?id=110871&userid=137159#

File List Save Compile & Run Evaluate Reset Restore Description

File list
FareleyExamPrep
src
AspirantMain

AspirantMain.java

```
1 import java.util.List;
2 import java.util.Map;
3 import java.util.Scanner;
4 import java.util.ArrayList;
5 import java.util.HashMap;
6
7 public class AspirantMain {
8
9     private Map<String,Double> aspirantMap = new HashMap<String,Double>();
10
11     public Map<String,Double> getAspirantMap() {
12         return aspirantMap;
13     }
14
15     public void setAspirantMap(Map<String,Double> aspirantMap) {
16         this.aspirantMap = aspirantMap;
17     }
18
19     public double findAspirantMark(String rollNumber){
20         //Fill the code
21
22         return 0;
23     }
24
25     public List<String> findAspirantsSelectedForTheSuperBatch() {
26         //Fill the code
27
28         return null;
29     }
30
31
32
33     public static void main(String args[]) {
34
35         // You are provided with the main method as code template and it is excluded from evaluation.
36
37         AspirantMain c=new AspirantMain();
```

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File list
FareleyExamPrep
src
AspirantMain

AspirantMain.java

```
24 public List<String> findAspirantsSelectedForTheSuperBatch() {
25     //Fill the code
26
27     return null;
28 }
29
30
31
32
33 public static void main(String args[]) {
34
35     // You are provided with the main method as code template and it is excluded from evaluation.
36
37     AspirantMain c=new AspirantMain();
38     List<String> list1=new ArrayList<String>();
39     Map<String, Double> map=new HashMap<String,Double>();
40     Scanner sc=new Scanner(System.in);
41     System.out.println("Enter number of records to be added:");
42     int n=sc.nextInt();
43     sc.nextLine();
44     System.out.println("Enter the details (Roll number : mark scored):");
45     String [] aspirantDetails = new String[n];
46     for(int i=0;i<n;i++) {
47         aspirantDetails[i] = sc.nextLine();
48     }
49
50     for(int i=0;i<aspirantDetails.length;i++) {
51         String[] a = aspirantDetails[i].split(":");
52
53         map.put(a[0], Double.parseDouble(a[1]));
54     }
55     c.setAspirantMap(map);
56
57     System.out.println("Enter the roll number to be searched");
58     String search=sc.next();
59     sc.nextLine();
60     double result=c.findAspirantMark(search);
```

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File list
FareleyExamPrep
src
AspirantMai

AspirantMain.java
47 aspirantDetails[i] = sc.nextLine();
48 }
49
50 for(int i=0;i<aspirantDetails.length;i++) {
51 String[] a = aspirantDetails[i].split(":");
52
53 map.put(a[0], Double.parseDouble(a[1]));
54
55 c.setAspirantMap(map);
56 }
57 System.out.println("Enter the roll number to be searched");
58 String search=sc.next();
59 sc.nextLine();
60 double result=c.findAspirantMark(search);
61 if(result!=-1)
62 {
63 System.out.println("Mark scored by the aspirant "+search+" is "+result);
64 }
65 else
66 {
67 System.out.println(search+" is an invalid roll number");
68 }
69
70 list1=c.findAspirantsSelectedForTheSuperBatch();
71 if(list1.size()==0)
72 System.out.println("None of the aspirants were selected for super batch");
73 else
74 {
75 System.out.println("Aspirants selected for the super batch are");
76 for(String s:list1)
77 {
78 System.out.println(s);
79 }
80 }
81 }
82 }
83 }