

# Kidzee Preschool

**Grade settings:** Maximum grade: 100

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

**Based on:** [Kidzee Preschool](#)

**Run:** Yes **Evaluate:** Yes

**Automatic grade:** Yes

Kidzee Preschool offers various programs for preschoolers. In order to increase the admissions, they planned to provide discounts on program fee based on the program name. You as their software consultant, have been approached to develop software to calculate the total fee.

## Component Specification: AdmissionInfo

Type(Class)	Attributes	Methods
<b>AdmissionInfo</b>	String admissionNumber  String childName  String programName  double programFee  double admissionFee	Necessary getters, setters and a five-argument constructor is provided as a part of the code skeleton.

**Functional Requirement 1: Extract the details from AdmissionInfo, create an object of AdmissionInfo class.**

Type(class)	Methods	Responsibilities
<b>UserInterface</b>	public static AdmissionInfo <b>extractDetails</b> (String admissionDetails)	This method accepts admissionDetails as an argument and extracts the properties of the AdmissionInfo from the argument. Set these values to the AdmissionInfo object and return this object.

**Functional Requirement2: Calculate the total fee to be paid based on the program name**

Type(class)	Methods	Responsibilities
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<b>AdmissionInfo</b>	<pre>public double calculateTotalFee()</pre>	<p>This method is used to calculate the total fee to be paid based on the program name.</p> <p>If the <b>programName</b> is <b>Play group</b>, <b>10%</b> of the amount is deducted from the programFee.</p> <p>If the <b>programName</b> is <b>Junior</b>, <b>15%</b> of the amount is deducted from the programFee.</p> <p>If the <b>programName</b> is <b>Senior</b>, <b>20%</b> of the amount is deducted from the programFee.</p> <p>Total fee is the sum of programFee and admissionFee</p> <p><b>Condition:</b></p> <ul style="list-style-type: none"> <li>• <i>programName is case-insensitive</i></li> <li>• <i>If the programFee is less than or equal to zero, the method should return -1.</i></li> <li>• <i>If the programName doesn't match any of the above mentioned programName, the method should return -1.</i></li> </ul>
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**Formula to calculate the total fee:**

**programFee = programFee - ((programFee \* discount percentage)/100)**

**Total Fee = programFee + admissionFee**

**Example:**

If programFee = 15000 , admissionFee = 3000 and programName is play group

programFee = 15000 - ((15000 \* 10)/100);

programFee = 13500

Totalfee = 13500 + 3000

TotalFee = 16500

**The main method in the `UserInterface` class is excluded from evaluation. You are free to write your own code in the main method to invoke the business methods to check its correctness.**

**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.
- Ensure to provide the names for classes, attributes, and methods as specified in the question.
- Adhere to the code template, if provided.

**Sample Input / Output 1:**

Enter the admission details

**101:Mary:Junior:8000:1000**

Admission Details

Admission Number: 101

Child Name : Mary

Program name: Junior

Program fee : 6800.0

Admission fee : 1000.0

Total fee : 7800.0

**Sample Input / Output 2:**

Enter the admission details

**101:Mary:nursery:8000:1000**

Invalid admission details

**Sample Input / Output 3:**

Enter the admission details

**102:John:Junior:-6000:1000**

Invalid admission details

```
1 public class AdmissionInfo {
2     private int admissionNumber;
3     private String childName;
4     private String programName;
5     private double programFee;
6     private double admissionFee;
7
8     public AdmissionInfo() {
9         super();
10    }
11
12
13
14
15    public AdmissionInfo(int admissionNumber, String childName, String programName, double programFee,
16        double admissionFee) {
17        super();
18        this.admissionNumber = admissionNumber;
19        this.childName = childName;
20        this.programName = programName;
21        this.programFee = programFee;
22        this.admissionFee = admissionFee;
23    }
24
25
26    public int getAdmissionNumber() {
27        return admissionNumber;
28    }
29
30    public void setAdmissionNumber(int admissionNumber) {
31        this.admissionNumber = admissionNumber;
32    }
33
34    public String getChildName() {
35        return childName;
36    }
37}
```

Qualifier Assessment Kidzee Preschool

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File List Save All Compile & Run Evaluate Reset Restore Description

File list

KidzeePreschool

src

AdmissionInfo.java

UserInterface.java

```
38 public void setChildName(String childName) {
39     this.childName = childName;
40 }
41
42 public String getProgramName() {
43     return programName;
44 }
45
46 public void setProgramName(String programName) {
47     this.programName = programName;
48 }
49
50 public double getProgramFee() {
51     return programFee;
52 }
53
54 public void setProgramFee(double programFee) {
55     this.programFee = programFee;
56 }
57
58 public double getAdmissionFee() {
59     return admissionFee;
60 }
61
62 public void setAdmissionFee(double admissionFee) {
63     this.admissionFee = admissionFee;
64 }
65
66
67
68 public double calculateTotalFee()
69 {
70     // fill the code here
71     return 0;
72 }
73
74 }
```

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AdmissionInfo.java

UserInterface.java

```
1 import java.util.Scanner;
2 public class UserInterface {
3
4     public static AdmissionInfo extractDetails(String admissionDetails){
5         // fill the code here
6         return null;
7     }
8
9     public static void main(String args[])
10     {
11         Scanner scanner = new Scanner(System.in);
12         // fill the code here
13     }
14 }
15
16 }
```