

## Fee Insights(---RETIRED---)

**Grade settings:** Maximum grade: 100

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

**Based on:** [Fee Insights\(---RETIRED---\)](#)

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

**Automatic grade:** Yes

As a Fee Insights employee, you were tasked with developing a new service called the platform fee calculator. This service was important for the company because it would allow clients to quickly and easily calculate the fees associated with different platforms, which would help them make informed decisions about which platforms to use for their businesses.

As a software developer, help them put the requirements into practice.

### Component Specification: Transaction

Type(Class)	Attributes	Responsibilities
<b>Transaction</b>	String mobileNumber  String bankName  String ifscCode  String platform  double amount	Necessary Getters, setters, no-argument and 5-argument constructors are provided as a part of the code skeleton.

**Functional Requirement 1: Extract the details of the Transaction and create an object of the Transaction class.**

Type(Class)	Attributes	Responsibilities
<b>UserInterface</b>	public static Transaction <b>extractDetails</b> (String transactionDetails)	This method accepts <b>transactiondetails</b> separated by the colon as an argument and extracts the properties of the <b>Transaction</b> from the argument. Set these values to the <b>Transaction</b> object and return the object.

**Functional Requirement 2: Calculate the platform fee for the number of transactions.**

Type(Class)	Attributes	Responsibilities
<b>Transaction</b>	public double <b>calculatePlatformFee()</b>	<p>This method is used to calculate the platform fee for the transactions based on the ifscCode, platform and amount.</p> <p>The first four characters of a valid Ifsc code should be capital letters (A-Z), and the following seven characters must be either uppercase letters (A-Z) or numbers (0-9).</p> <p><b>Example: ASFG2385728</b></p> <p>kindly refer below table for the fee percentage based on platform and amount.</p> <p><b>Condition:</b></p> <ul style="list-style-type: none"> <li>• The <b>platform</b> is case-Insensitive.</li> <li>• If the <b>amount</b> is less than or equal to zero and greater than 100000 return -1.</li> <li>• If the <b>platform</b> doesn't match the platform mentioned table below return -1.</li> <li>• If the ifscCode does not match the validation criteria return -1.</li> </ul>

**Fee percentages are based on platform and amount.**

Platform	Amount>0 Amount<=10000	Amount>10000 Amount<=50000	Amount>50000 Amount<=100000
Gpay	2%	5%	8%
PayTM	1%	3%	6%
PhonePe	3%	4%	7%

### Formula to Calculate platform Fee

Platform Fee = (amount\*FeePercentage)/100

for example,

Let the platform be phonepe, the amount be 5000,

then Platform Fee = (5000\*3)/100=150.0

**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 details

**9897456321:AxisBank:ANDB0145456:Gpay:8000**

Mobile Number: 9897456321

Bank Name: AxisBank

IFSC Code: ANDB0145456

Platform: Gpay

Amount: 8000.0

Platform Fee: Rs. 160.0

### **Sample Input / Output 2**

Enter the details

**9874561234:SBI:SBI4567897:PhonePe:5000**

Invalid Transaction details

**[Explanation:** Invalid IFSC code]

### **Sample Input / Output 3**

Enter the details

**7894589689:AndraBank:ANDB0456784:PayTM:-9000**

Invalid Transaction details

**[Explanation:** Amount is negative]

### **Sample Input / Output 4**

Enter the details

**8978969878:StateBank:SBIN7097856:sling:50000**

Invalid Transaction details

**[Explanation:** Invalid Platform]

Qualifier Assessment Fee Insight: x +

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File List Save All Compile & Run Evaluate Reset Restore Description

File list  
FeelInsights  
src  
Transaction  
UserInterface

Transaction.java | UserInterface.java

```
1 public class Transaction {  
2     private String mobileNumber;  
3     private String bankName;  
4     private String ifscCode;  
5     private String platform;  
6     private double amount;  
7  
8  
9  
10    public Transaction(String mobileNumber, String bankName, String ifscCode, String platform, double amount) {  
11        this.mobileNumber = mobileNumber;  
12        this.bankName = bankName;  
13        this.ifscCode = ifscCode;  
14        this.platform = platform;  
15        this.amount = amount;  
16    }  
17  
18    public Transaction() {  
19        super();  
20    }  
21  
22    public String getMobileNumber() {  
23        return mobileNumber;  
24    }  
25    public void setMobileNumber(String mobileNumber) {  
26        this.mobileNumber = mobileNumber;  
27    }  
28    public String getBankName() {  
29        return bankName;  
30    }  
31    public void setBankName(String bankName) {  
32        this.bankName = bankName;  
33    }  
34    public String getIfscCode() {  
35        return ifscCode;  
36    }  
37    public void setIfscCode(String ifscCode) {
```

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Transaction.java | UserInterface.java

```
24 }  
25 public void setMobileNumber(String mobileNumber) {  
26     this.mobileNumber = mobileNumber;  
27 }  
28 public String getBankName() {  
29     return bankName;  
30 }  
31 public void setBankName(String bankName) {  
32     this.bankName = bankName;  
33 }  
34 public String getIfscCode() {  
35     return ifscCode;  
36 }  
37 public void setIfscCode(String ifscCode) {  
38     this.ifscCode = ifscCode;  
39 }  
40 public String getPlatform() {  
41     return platform;  
42 }  
43 public void setPlatform(String platform) {  
44     this.platform = platform;  
45 }  
46 public double getAmount() {  
47     return amount;  
48 }  
49 public void setAmount(double amount) {  
50     this.amount = amount;  
51 }  
52 public double calculatePlatformFee(){  
53     //Fill the code here  
54  
55  
56  
57     return 0;  
58 }  
59  
60
```

Qualifier Assessment Fee Insights

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File List Save All Compile & Run Evaluate Reset Restore Description

File list  
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src  
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UserInterface

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

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