

Telephone Bill

Suresh and Raja are friends, they work for a MNC. There is a small discussion going on between them regarding the preparation of monthly telephone bill of the customer according to number of calls made and number units consumed.

Can u write a java program using inheritance concept which gives solution for their argument.

Create a class called **Bill** with 2 private data member variables - **billNumber** of type int and **name** of type String.

Include a 2 arguments constructor with arguments int **id** and String **name**.

Include a method name **generateBill** which is used to display the **bill number** and **customer name**.

Create a class called **TelePhoneBill** which extends the class **Bill** with 2 private data member variables - **numberOfCallsMade** of type int and **costPerCall** of type double.

Include a 4 arguments constructor with the appropriate arguments.

Include a method named **generateBill** which overrides the method **generateBill** in the Bill class. Display the appropriate details in this method.

Create a class called **CurrentBill** which extends the class Bill with 2 private data member variables - **numberOfUnitsConsumed** of type int and **costPerUnit** of type double.

Include a 4 arguments constructor with the appropriate arguments.

Include a method named **generateBill** which overrides the method **generateBill** in the Bill class. Display the appropriate details in this method.

Create a driver class named **Main** which creates an instance of the above-mentioned classes.

Input and Output Format:

Refer sample input and output for formatting specifications.

Sample Input and Output:

[All text in bold corresponds to input and the rest corresponds to output.]

Enter the Telephone Bill Number :

12345

Enter the Customer Name :

Suresh

Enter the Number of Calls made :

300

Enter the Cost per Call :

0.75

Enter the Current Bill Number :

5678

Enter the Customer Name :

Raja

Enter the Number of Units Consumed :

500

Enter the Cost per Unit :

1.50

Bill Number : 12345

Customer Name : Suresh

Telephone Bill Amount : 225.0

Bill Number : 5678

Customer Name : Raja

Current Bill Amount : 750.0