

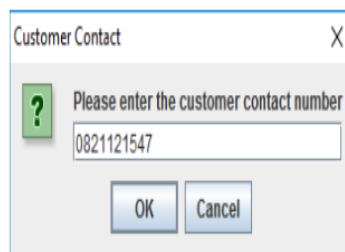
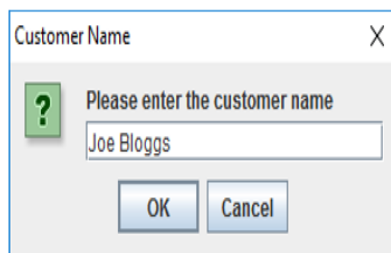
Java Practice Exam Question

Create a class named `Customer` that will determine the monthly repayment amount due by a customer for a product bought on credit. The class has five fields: customer name, contact number, product price, number of months and the monthly repayment amount. Write get and set methods for each field, except for the monthly repayment amount field. The set methods must prompt the user to enter the values for the following fields: customer name, contact number, product price and number of months. This class also needs a method to calculate the monthly repayment amount (product price divided by the number of months).

Add a subclass named `Finance_Period` that will determine if a customer will pay interest or not. If the number of months to pay for the product is greater than three, the customer will pay 25% interest, else no interest applies. The maximum number of months to pay for the product is 12. Override the `calculate_repayment ()` method by determining if the customer will pay interest or not and calculate the monthly repayment amount.

Create a class called `Customer_Finance` that contains the logic to test the two classes. Prompt the user for data for the first object where no interest applies and display the results; then prompt the user for data where interest is applicable and display the results.

Sample Screen Shots:



Product Price

?

Please enter the price of the product

5000

OK Cancel

Number of Months

?

Please enter the number of repayment months

10

OK Cancel

Message

i

Customer Name: Joe Bloggs
Customer Contact: 0821121547
Product Amount: R 5,000
Repayment Months: 10
Monthly Repayment: R 625
Total Due: R 6,250

OK