Write a program using function to calculate the simple interest. Suppose the customer is a senior citizen. He is being offered 12 percent rate of interest; for all other customers, the ROI is 10 percent.

CODE:

import java.util.Scanner;

public class SimpleInterestCalculator {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

// Getting principal amount

System.out.print("Enter the principal amount: ");

double principal = scanner.nextDouble();

// Getting time period

System.out.print("Enter the time period (in years): ");

double time = scanner.nextDouble();

// Getting customer type

System.out.print("Enter the customer type (senior / other): ");

String customerType = scanner.next();

// Calculating rate of interest based on customer type

double rateOfInterest = (customerType.equalsIgnoreCase("senior")) ? 0.12 : 0.10;

// Calculating simple interest

double simpleInterest = (principal \* rateOfInterest \* time);

// Displaying the result

System.out.println("Simple Interest: " + simpleInterest);

scanner.close();

}

}

OUTPUT:

C:\javap>javac SimpleInterestCalculator.java

C:\javap>java SimpleInterestCalculator

Enter the principal amount: 50000

Enter the time period (in years): 3

Enter the customer type (senior / other): other

Simple Interest: 15000.0

