package assisgnment;

import java.util.\*;

public class prtinterest {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

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

        double principal = input.nextDouble();

        System.out.print("Enter the number of years: ");

        int years = input.nextInt();

        System.out.print("Is the customer a senior citizen (y/n): ");

        char isSenior = input.next().charAt(0);

        double rateOfInterest;

        if (isSenior == 'y' || isSenior == 'Y') {

            rateOfInterest = 0.12; // 12% for senior citizens

        } else if (isSenior == 'n' || isSenior == 'N') {

            rateOfInterest = 0.10; // 10% for other customers

        } else {

            System.out.println("Invalid input for senior citizen status.");

            return; // Exit the program if invalid input

        }

        if (principal <= 0 || years <= 0) {

            System.out.println("Invalid input for principal amount or number of years.");

            return; // Exit the program if invalid input

        }

        double interest = principal \* rateOfInterest \* years;

        System.out.println("Interest: " + interest);

    }

}

