Exercise 7: Financial Forecasting System

Code:

import java.util.\*;  
public class Main {  
 public static double calculateFutureValue(double presentValue, double rate, int years) {  
 if (years == 0) {  
 return presentValue; // Base case  
 }  
 return *calculateFutureValue*(presentValue, rate, years - 1) \* (1 + rate);  
 }  
 public static void main(String[] args) {  
 Scanner sc = new Scanner(System.*in*);  
 System.*out*.print("Enter the Present Value: ");  
 double presentValue = sc.nextDouble();  
 System.*out*.print("Enter the rate: ");  
 double rate = sc.nextDouble();  
 System.*out*.print("Enter the time (in years): ");  
 int years = sc.nextInt();  
 double futureValue = *calculateFutureValue*(presentValue, rate, years);  
 System.*out*.printf("Future value after %d years: %.2f%n", years, futureValue);  
 }  
}

Output:

A black screen with many small colored objects

AI-generated content may be incorrect.

A screen shot of a computer

AI-generated content may be incorrect.

A screen shot of a computer

AI-generated content may be incorrect.