Exercise 7: Financial Forecasting

FinancialForecast.java

package financialforecasting;

public class FinancialForecast {

    // to calculate future value

    public static double futureValue(double pv, double gr, int p) {

        if (p == 0) {

            return pv;

        }

        return (1 + gr) \* futureValue(pv, gr, p- 1);

    }

}

**ForecastApp.java**

package financialforecasting;

import java.util.\*;

public class ForecastApp {

    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);

        System.out.println("enter the Present value");

        double pv = sc.nextDouble();

        System.out.println("enter the growth rate");

        double gr = sc.nextDouble();

        System.out.println("enter the number of years");

        int p = sc.nextInt();

        // Using recursive version

        double recres = FinancialForecast.futureValue(pv, gr, p);

        System.out.printf("Future Value after %d years: Rs %.2f%n", p, recres);

}

}

