**Financial Forecasting**

**financialforecasting.java**

public class financialForecasting {

    public static double predictFutureValue(double currentValue, double growthRate, int years) {

        if (years == 0) {

            return currentValue;

        }

        return predictFutureValue(currentValue \* (1 + growthRate), growthRate, years - 1);

    }

    public static void main(String[] args) {

        double initialInvestment = 10000.0;

        double growthRate = 0.08;

        int forecastYears = 5;

        double futureValue = predictFutureValue(initialInvestment, growthRate, forecastYears);

        System.out.printf("Future value after %d years: Rs.%.2f\n", forecastYears, futureValue);

    }

}

