**Exercise 7: Financial Forecasting**

**FinancialForecast1.java**

public class FinancialForecast1 {

public static double calculate(double amount, double rate, int years) {

if (years == 0) {

return amount;

}

return calculate(amount \* (1 + rate), rate, years - 1);

}

public static void main(String[] args) {

double initInvestment = 10000;

double GrowthRate = 0.07;

int years = 5;

double futureValue = calculate(initInvestment, GrowthRate, years);

System.out.printf("After %d years = Rs.%.2f\n", years, futureValue);

}

}

**Output**

