**DATA STRUCTURES & ALGORITHMS**

# **Exercise 7: Financial Forecasting**

## **Code**:

### ***FinancialForecaster.java:***

| public class FinancialForecaster {   public static double projectValue(double initialCapital, double growthFactor, int timeIntervals) {  if (timeIntervals <= 0) {  return initialCapital;  }    return projectValue(initialCapital \* (1 + growthFactor), growthFactor, timeIntervals - 1);  }   public static void main(String[] args) {  double startAmount = 3000.0;  double annualGrowth = 0.12;  int yearsAhead = 6;   double futureAmount = projectValue(startAmount, annualGrowth, yearsAhead);  System.out.printf("After %d years, your investment will be: %.2f\n", yearsAhead, futureAmount);  } } |
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## 

## **Output**:

