# FinancialForecasting:

ForecastTool.java:

public class ForecastTool {

// Recursive method to calculate future value

public static double calculateFutureValue(double presentValue, double growthRate, int years) {

if (years == 0) {

return presentValue;

} else {

return calculateFutureValue(presentValue, growthRate, years - 1) \* (1 + growthRate);

}

}

public static void main(String[] args) {

double presentValue = 10000; // Initial investment

double growthRate = 0.08; // 8% annual growth

int years = 5; // Forecast for 5 years

double futureValue = calculateFutureValue(presentValue, growthRate, years);

System.out.printf("Predicted future value after %d years: ₹%.2f\n", years, futureValue);

}

}

