**Financial Forecasting**

**FinancialForecast.java**

public class FinancialForecast {

// Recursive method to calculate future value

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

if (years == 0) {

return currentValue; // Base case

}

// Recursive step

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

}

public static void main(String[] args) {

double initialValue = 10000; // Starting amount ($)

double growthRate = 0.10; // 10% annual growth

int years = 5;

double result = forecastValue(years, initialValue, growthRate);

System.out.printf("Forecasted value after %d years: $%.2f\n", years, result);

}

}

**Output**

