**Exercise7:**

**FinalForecast.java**

public class FinancialForecast {

// Recursive method to calculate future value

public static double futureValue(double presentValue, double rate, int years) {

if (years == 0) return presentValue;

return *futureValue*(presentValue, rate, years - 1) \* (1 + rate);

}

public static void main(String[] args) {

double presentValue = 10000; // ₹10,000 today

double growthRate = 0.05; // 5% annual growth

int years = 5;

double result = *futureValue*(presentValue, growthRate, years);

System.***out***.printf("📊 Future Value after %d years: ₹%.2f\n", years, result);

}

**Output:**

