**Exercise 7: Financial Forecasting**

public class Main {

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

if (years == 0) return presentValue;

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

}

public static void main(String[] args) {

double result = forecastValue(1000, 0.05, 10);

System.out.printf("Forecasted value: ₹%.2f%n", result);

}

}

