**EXERCISE 7: FINANCIAL FORECASTING**

Import java.util.Scanner;

public class LoanForcast {

    public static void main(String[] args) {

        try (Scanner scanner = new Scanner(System.in)) {

            System.out.print("Enter initial savings amount (₹): ");

            double initialBalance = scanner.nextDouble();

            System.out.print("Enter monthly deposit amount (₹): ");

            double monthlyDeposit = scanner.nextDouble();

            System.out.print("Enter annual interest rate (%): ");

            double annualInterestRate = scanner.nextDouble();

            System.out.print("Enter forecast period in months: ");

            int months = scanner.nextInt();

            // Monthly interest rate

            double monthlyRate = annualInterestRate / 12 / 100;

            double balance = initialBalance;

            System.out.println("\n--- Financial Forecast ---");

            for (int i = 1; i <= months; i++) {

                balance += monthlyDeposit;

                balance += balance \* monthlyRate;

                System.out.printf("Month %2d: ₹%.2f\n", i, balance);

            }

            System.out.printf("\nTotal Savings after %d months: ₹%.2f\n", months, balance);

        }

    }

}

**OUTPUT:**

