public class Forecast {

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

        if (years == 0) {

            return presentValue;

        }

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

    }

    public static void main(String[] args) {

        double present = 10000;

        double growthRate = 0.10;

        int years = 5;

        double future = futureValue(present, growthRate, years);

        System.out.println("Future value after " + years + " years: ₹" + future);

    }

}

