**Exercise 7: Financial Forecasting**

**FinancialForecasting.java:**

public class FinancialForecast{

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

        if (years==0){

            return presentValue;

        }

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

    }

    public static void main(String[] args){

        double initialInvestment=10000;

        double growthRate=0.08;

        int totalYears=5;

        double result=calculateFutureValue(initialInvestment, growthRate,totalYears);

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

    }

}

**Output:**

