Exercise 7: Financial Forecasting

FinancialForecasting.java:

```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:

```
[Running] cd "/Users/yagnanarayanan/Library/Mobile Documents/com~apple~TextEdit/Documents/week1-cog/week1/Algorithms_Data Structures/FinancialForecasting/
" && javac FinancialForecast.java && java FinancialForecast
Future Value after 5 years: Rs.14693.28

[Done] exited with code=0 in 0.717 seconds
```