**Exercise 7:  
Financial Forecasting using Recursion**  
  
ForecastCalculator.java:

**package** forecast;

**public** **class** ForecastCalculator {

**public** **static** **double** predictFutureValue(**double** currentValue,**double** growthRate,**int** years)

{

**if**(years==0)

{

**return** currentValue;

}

**else**

{

**return** *predictFutureValue*(currentValue \* (1+growthRate),growthRate,years-1);

}

}

}

ForecastTest.java:

**package** forecast;

**public** **class** ForecastTest {

**public** **static** **void** main(String[] args) {

**double** currentValue = 15000;

**double** growthRate = 0.05;

**int** years = 4;

**double** futureValue = ForecastCalculator.*predictFutureValue*(currentValue, growthRate, years);

System.***out***.println("Predicted Future Value after " + years + " years: ₹" + futureValue);

}

}

**Output:**

