Exercise 7: Financial Forecasting

Code :

class FinancialForecast {  
  
 public static double predictFutureValue(double currentValue, double growthRate, int years) {  
 if (years == 0) {  
 return currentValue;  
 }  
 return *predictFutureValue*(currentValue \* (1 + growthRate), growthRate, years - 1);  
 }  
  
 public static void main(String[] args) {  
 double initialValue = 10000;  
 double annualGrowthRate = 0.08;  
 int numberOfYears = 5;  
  
 double futureValue = *predictFutureValue*(initialValue, annualGrowthRate, numberOfYears);  
 System.*out*.println("Predicted Value after " + numberOfYears + " years: " + futureValue);  
 }  
}

Output:

