**Exercise 7: Financial Forecasting**

public class FinancialForecast {  
  
 public static double calculateFutureValue(double presentValue, double rate, int years) {  
 if (years == 0) return presentValue;  
 return (1 + rate) \* *calculateFutureValue*(presentValue, rate, years - 1);  
 }  
  
 public static void main(String[] args) {  
 double presentValue = 10000.0;  
 double annualRate = 0.08;  
 int years = 5;  
  
 double futureValue = *calculateFutureValue*(presentValue, annualRate, years);  
  
 System.*out*.printf("Future Value after %d years: ₹%.2f\n", years, futureValue);  
 }  
}

OUTPUT:

A computer screen shot of a program

AI-generated content may be incorrect.