**Exercise 7: Financial Forecasting**

**Scenario:**

You are developing a financial forecasting tool that predicts future values based on past data.

**CODE:**

**package** dataStructures;

**import** java.util.Scanner;

**public** **class** Financial\_Forecasting

{

**public** **static** **double** futureValue(**int** years, **double** rate, **double** princ)

{

**for** (**int** i = 0; i < years; i++)

{

princ = princ \* (1 + rate);

}

**return** princ;

}

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

Scanner scanner = **new** Scanner(System.***in***);

System.***out***.print("Enter initial investment amount: ");

**double** princ = scanner.nextDouble();

System.***out***.print("Enter annual growth rate: ");

**double** rate = scanner.nextDouble();

System.***out***.print("Enter number of years: ");

**int** years = scanner.nextInt();

**double** result = *futureValue*(years, rate, princ);

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

scanner.close();

}

}

**CODE SNIPPET:**

A screenshot of a computer

AI-generated content may be incorrect.

**OUTPUT:**

