**Exercise 7: Financial Forecasting**

Code :

import java.util.\*;

public class FinancialForecast {

public static double[] forecastRevenue(double[] historical, double growthRate, int futureYears) {

double[] forecast = new double[futureYears];

double lastRevenue = historical[historical.length - 1];

for (int i = 0; i < futureYears; i++) {

lastRevenue = lastRevenue \* (1 + growthRate);

forecast[i] = lastRevenue;

}

return forecast;

}

public static void main(String[] args) {

double[] historicalRevenue = {10000, 12000, 14000}; // Revenue of past 3 years

double growthRate = 0.10; // 10% annual growth

int yearsToForecast = 5;

double[] forecast = forecastRevenue(historicalRevenue, growthRate, yearsToForecast);

System.out.println("Revenue Forecast for Next " + yearsToForecast + " Years:");

for (int i = 0; i < forecast.length; i++) {

System.out.printf("Year %d: %.2f\n", i + 1, forecast[i]);

}

}

}

Output :

A screenshot of a computer

AI-generated content may be incorrect.