# FINANCIAL FORECASTING

CODE :

import java.util.Scanner;

public class FinancialForecast {

// using recursion for predicting

public static void forecastEachYear(double currentValue, double rate, int year, int totalYears) {

if (year > totalYears) {

return;

}

double increasedValue = currentValue + (currentValue \* rate);

System.out.printf("Year %d: %.2f\n", year, increasedValue);

forecastEachYear(increasedValue, rate, year + 1, totalYears);

}

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter starting value: ");

double value = sc.nextDouble();

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

double ratePercent = sc.nextDouble();

double rate = ratePercent / 100;

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

int years = sc.nextInt();

System.out.println("\n Forecast for Each Year");

forecastEachYear(value, rate, 1, years);

}

}

OUTPUT :

