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Financial Forecasting**

using System;

using System.Globalization;

class Program

{

static void Main(string[] args)

{

Console.OutputEncoding = System.Text.Encoding.UTF8;

Console.Write("Enter initial value (₹): ");

double initialValue = Convert.ToDouble(Console.ReadLine());

Console.Write("Enter annual growth rate (e.g., 0.1 for 10%): ");

double rate = Convert.ToDouble(Console.ReadLine());

Console.Write("Enter number of years to forecast: ");

int years = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("\nFinancial Forecast:");

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

{

double forecastValue = Forecast(initialValue, rate, i);

Console.WriteLine($"Year {i}: ₹{forecastValue:F2}");

}

}

static double Forecast(double value, double rate, int year)

{

if (year == 0)

return value;

return Forecast(value \* (1 + rate), rate, year - 1);

}

}

