**Exercise 7: Financial Forecasting**

**CODE :**

using System;

using System.Collections.Generic;

namespace FinancialForecasting

{

class Program

{

static double CalculateMovingAverage(List<double> data, int window)

{

if (data.Count < window)

{

Console.WriteLine("Not enough data for the given window size.");

return 0;

}

double sum = 0;

for (int i = data.Count - window; i < data.Count; i++)

{

sum += data[i];

}

return sum / window;

}

static void Main(string[] args)

{

List<double> monthlyRevenue = new List<double> { 42000, 43000, 45000, 46000, 47000, 48000 };

Console.Write("Enter window size for moving average (e.g., 3): ");

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

double forecast = CalculateMovingAverage(monthlyRevenue, window);

Console.WriteLine($"\nForecasted revenue for next month: ₹{forecast:F2}");

}

}

}

**OUTPUT**

