using System;

using System.Collections.Generic;

class Program

{

static void Main()

{

// The original string format (modified with fixed values)

string inputTemplate = "x:3; y:2; z:userinput; result: x \* y + z;";

// Dictionary to store parsed values

Dictionary<string, int> variables = new Dictionary<string, int>();

// Split the string on semicolons

string[] parts = inputTemplate.Split(';');

string expression = "";

foreach (string part in parts)

{

if (string.IsNullOrWhiteSpace(part)) continue;

string[] keyValue = part.Split(':');

string key = keyValue[0].Trim();

string value = keyValue[1].Trim();

if (value.ToLower() == "userinput")

{

// Only ask for z value

Console.Write($"Enter value for {key}: ");

int userVal = int.Parse(Console.ReadLine());

variables[key] = userVal;

}

else if (key.ToLower() == "result")

{

expression = value; // Store expression for later

}

else

{

// Fixed numbers (x=3, y=2)

variables[key] = int.Parse(value);

}

}

// Get values from dictionary

int x = variables["x"]; // Will be 3

int y = variables["y"]; // Will be 2

int z = variables["z"]; // User input

// Perform the calculation (x \* y + z)

int result = x \* y + z;

// Final output showing all values

Console.WriteLine("\n--- Final Output ---");

Console.WriteLine($"x = {x}");

Console.WriteLine($"y = {y}");

Console.WriteLine($"z = {z}");

Console.WriteLine($"Result = {result}");

}

}

