using System;

using System.Linq;

class Program

{

static void Main()

{

// Take student ID from user and extract last two digits

Console.Write("Enter your student ID (e.g., BCS-032): ");

string studentId = Console.ReadLine();

string lastTwoDigits = new string(studentId.Where(char.IsDigit).Reverse().Take(2).Reverse().ToArray());

lastTwoDigits = lastTwoDigits.Length == 2 ? lastTwoDigits : "00";

// Take input values from user

Console.Write("Enter value for x: ");

string xValue = Console.ReadLine();

Console.Write("Enter value for y: ");

string yValue = Console.ReadLine();

const string zValue = "4"; // Fixed value for z

// Build the input string with modified variable name (y + last two digits)

string input = $"x:{xValue}; y\_{lastTwoDigits}:{yValue}; z:{zValue}; result: x \* y\_{lastTwoDigits} + z;";

// Extract values from string

int x = ExtractValue(input, "x");

int y = ExtractValue(input, "y\_" + lastTwoDigits);

int z = ExtractValue(input, "z");

// Perform calculation: x \* y + z

int result = x \* y + z;

// Display results in required format

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

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

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

}

static int ExtractValue(string input, string variable)

{

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

foreach (string part in parts)

{

string trimmed = part.Trim();

if (trimmed.StartsWith(variable + ":"))

{

string valuePart = trimmed.Substring(variable.Length + 1).Trim();

if (int.TryParse(valuePart, out int value))

{

return value;

}

}

}

return 0; // Default if parsing fails

    }

}

