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**Sp22-bcs-007**

using System;

using System.Text.RegularExpressions;

using System.Data;

using System.Linq;

class Program

{

static void Main()

{

string inputCode = "var a1 = 12@; float b2 = 3.14$$; int c3 = 5#; string d4 = 'text';";

// Regex pattern to match variables starting with a, b, or c, ending with digits,

// and containing non-alphanumeric special characters in the value

string pattern = @"(var|float|int|string)\s+([abc]\d+)\s\*=\s\*([^;]\*[^a-zA-Z0-9\s][^;]\*);";

var matches = Regex.Matches(inputCode, pattern);

// Create a table to display results

Console.WriteLine("VarName\tSpecialSymbol\tTokenType");

Console.WriteLine("----------------------------------");

foreach (Match match in matches)

{

string varName = match.Groups[2].Value;

string value = match.Groups[3].Value.Trim();

// Extract special symbol

char specialSymbol = value.FirstOrDefault(c => !char.IsLetterOrDigit(c) && !char.IsWhiteSpace(c));

// Determine token type based on declaration

string tokenType = match.Groups[1].Value;

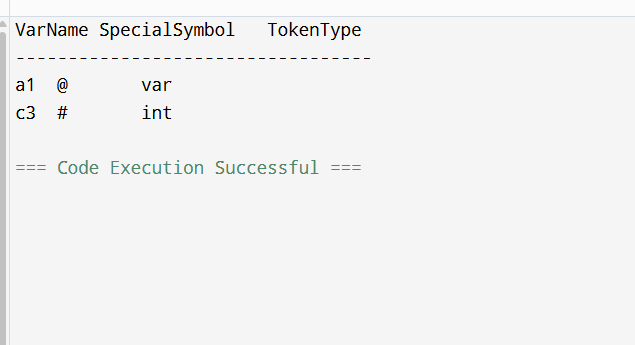
Console.WriteLine($"{varName}\t{specialSymbol}\t\t{tokenType}");

}

}

}

**Output**

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