Write a program to print the special characters separately and print number of Special characters in the line?

Code:

import java.util.Scanner;

public class SpecialCharactersCount {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

// Input

System.out.print("Enter a line of text: ");

String inputLine = scanner.nextLine();

// Count and print special characters

int specialCharCount = 0;

System.out.println("Special Characters:");

for (int i = 0; i < inputLine.length(); i++) {

char currentChar = inputLine.charAt(i);

if (isSpecialCharacter(currentChar)) {

System.out.println(currentChar);

specialCharCount++;

}

}

// Output the count of special characters

System.out.println("Number of Special Characters: " + specialCharCount);

scanner.close();

}

private static boolean isSpecialCharacter(char ch) {

// Define the set of special characters based on your requirement

// In this example, we consider any character that is not alphanumeric or whitespace as special

return !Character.isLetterOrDigit(ch) && !Character.isWhitespace(ch);

}

}

Output:

C:\javap>javac SpecialCharactersCount.java

C:\javap>java SpecialCharactersCount

Enter a line of text: Hello! Good Morning, how have you been?

Special Characters:

!

,

?

Number of Special Characters: 3

