Assignment #1

Write a program for lexical analysis i.e. takes a line from file or keyboard and specify each word or character into the following tokens.

1. Any word either combination of characters and digits or combination of characters -> **Identifier**.

2. Any number –> **Constant**

3. Single character token ->

      a.   Parenthesis -> ( ), { }, [ ]

      b.   Punctuation sign -> **;**(semicolon) , **:** (colon) , **,** (coma)

      c.   Arithmetic operator -> + , -, *, /

4. Keyword (**if, else, …**)

Sample Input (Console Input / File Input):

int a = b*c + 10;

Sample output:

Keyword (1): int
Identifier (3): a, b, c
Operator (3): =, *, +
Constant (1): 10
Punctuation (1): ;