## Lex-Yacc lab 8

Source: <a href="https://github.com/cinnamonbreakfast/flcd/tree/main/lab8">https://github.com/cinnamonbreakfast/flcd/tree/main/lab8</a>

Supporting emojis in code 😊

## How to:

- 1. lex specif.lxi
- 2. gcc lex.yy.c -o exe -ll
- 3. ./exe < p1.pizza

## specif.lxi

```
%option noyywrap
NUMBER
WRITE
```

```
{printf("Reserved word: %s\n", yytext);}
G
[+-]?0[0-9]* {printf("Illegal constant at line %d @\n", lines);}
[0-9\sim0 \# \$\%^{1}] [a-zA-Z0-9] {printf("Illegal identifier at line %d \bigcirc \n", lines);}
```

## **Example of inputs:**

This is a correct program, it has no errors and it should be parsed fine. Output:

```
Reserved word: 🍪
Separator: {
Reserved word: int
Identifier: number
Separator: ;
Identifier: number
Operator: =
Constant: 5
Separator: ;
Reserved word: if
Separator: (
Identifier: number
Operator: >
Constant: 5
Separator: )
Separator: {
Reserved word: ◁
Separator: (
Constant: "abds"
Separator: )
Separator:
Separator: }
Separator: }
```

Program number 2, on the other hand

Contains an error on line 4 (invalid constant err) and another one on line 7 (end of string err). Output:

```
Reserved word: 3
Separator: {
Reserved word: int
Identifier: number
Separator: ;
Identifier: number
Operator: =
Illegal constant at line 2 🕾
Separator: ;
Reserved word: if
Separator: (
Identifier: number
Operator: >
Constant: 5
Separator: )
Separator: {
Reserved word: ◁
Separator: (
Aoleu 😯 expected end of string on line 4
Identifier: bds
Separator: )
Separator: ;
Separator: }
Separator: }
```