

HW-3 Documentation

Flex and Yacc Part:

```
>make
yacc -o parser.tab.c -d parser.y
flex -o lexer.c lexer.l
gcc functions.c lexer.c parser.tab.c -o gpp_interpreter
> ./gpp_interpreter
(input almaya hazır)
```

Örnek inputlar:

```
> (+ 4b1 6b1)
10b1
> (def sum x y (+ x y))
#function
> (sum 4b1 6b1)
10b1
> (exit)
> (* 4b1 6b1 8b1)
Syntax error!
> (* 4b1 6b1)
24f1

> (def sub x y (- x y))
> (sub 8b1 6b1)

> (def mul x y (* x y))
```

> (mul 8b1 6b1)

> (* 8b1 6b1)

> (def div x y (/ x y))

> (div 6b1 3b1)

> (/ 6b1 3b1)

```
berkehan@DESKTOP-I5LN1GL:/mnt/c/Users/User/Desktop/ödev_son/lexer$ make
yacc -o parser.tab.c -d parser.y
flex -o lexer.c lexer.l
gcc functions.c lexer.c parser.tab.c -o gpp_interpreter
berkehan@DESKTOP-I5LN1GL:/mnt/c/Users/User/Desktop/ödev_son/lexer$ ./gpp_interpreter
(+ 4b1 6b1)
10b1
(def sum x y (+ x y))
#function
(sum 4b1 6b1)
10b1
(def sub x y (- x y))
#function
(sub 8b1 6b1)
2b1
(* 4b1 6b1 8b1)
Syntax error!
berkehan@DESKTOP-I5LN1GL:/mnt/c/Users/User/Desktop/ödev_son/lexer$ _
```

Lisp Part:

>clisp gpp_interpreter.lisp

Choose mode: (1) File, (2) Console: (“1” yazılınca dosyadan okur, “2” yazılınca direct input alır)

>1

Enter file name:

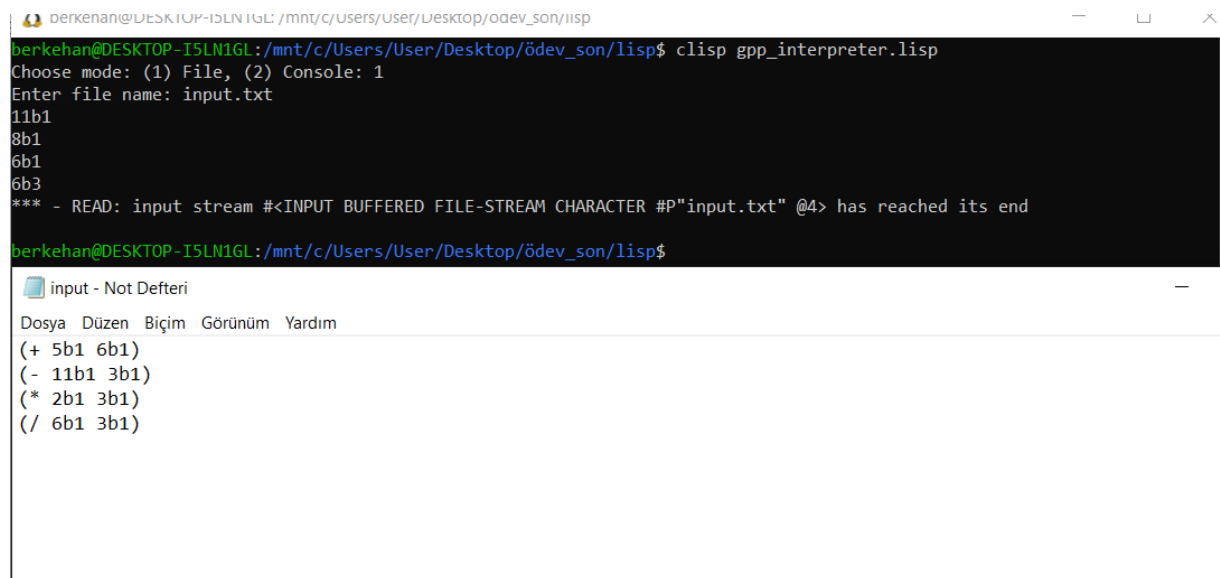
> input.txt

11b1

8b1

6b1

6b3



```
berkehan@DESKTOP-I5LN1GL: /mnt/c/Users/User/Desktop/odev_son/lisp$ clisp gpp_interpreter.lisp
Choose mode: (1) File, (2) Console: 1
Enter file name: input.txt
11b1
8b1
6b1
6b3
*** - READ: input stream #<INPUT BUFFERED FILE-STREAM CHARACTER #P"input.txt" @4> has reached its end
berkehan@DESKTOP-I5LN1GL: /mnt/c/Users/User/Desktop/odev_son/lisp$
```

input - Not Defteri

Dosya Düzen Biçim Görünüm Yardım

(+ 5b1 6b1)
(- 11b1 3b1)
(* 2b1 3b1)
(/ 6b1 3b1)

>clisp gpp_interpreter.lisp

Choose mode: (1) File, (2) Console: (“1” yazılınca dosyadan okur, “2” yazılınca direct input alır)

>2

İnput girebilirsiniz.

```
berkehan@DESKTOP-15LN1GL: /mnt/c/Users/User/Desktop/odev_son/lexer
berkehan@DESKTOP-15LN1GL:/mnt/c/Users/User/Desktop/odev_son/lexer$ make
yacc -o parser.tab.c -d parser.y
flex -o lexer.c lexer.l
gcc functions.c lexer.c parser.tab.c -o gpp_interpreter
berkehan@DESKTOP-15LN1GL:/mnt/c/Users/User/Desktop/odev_son/lexer$ ./gpp_interpreter
(+ 5b1 6b1)
11b1
(- 11b1 3b1)
8b1
```