

Compiler Design Lab (CS306L)

Week-2

In the given symbol Table program, I took an expression by this I define the tokens in the given one and every token is compared and classified as the following way given in the example below

Ex: I took 'a' is identifier, any digit as constant, = as operator and <= and many as relational operator

I took the expression and declared character array which I defined size of 50 and I took integer data type

Output:

```
nikhil@DESKTOP-0T7VE09: /n × + ∨
nikhil@DESKTOP-0T7VE09:/mnt/c/Users/yaman/Desktop$ gcc main.c
nikhil@DESKTOP-0T7VE09:/mnt/c/Users/yaman/Desktop$ ./a.out
Enter Expression (terminated by $):a=b+c*5$
Given Expression:a=b+c*5
Lexxems Address Type
a 0x7fffc9997720 Identifier
= 0x7fffc9997721 Operator
b 0x7fffc9997722 Identifier
+ 0x7fffc9997723 Operator
c 0x7fffc9997724 Identifier
* 0x7fffc9997725 Operator
5 0x7fffc9997726 Constant
nikhil@DESKTOP-0T7VE09:/mnt/c/Users/yaman/Desktop$ |
```

→Therefore they are divided into address and type of the given ones

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CSE A