

Assignment 1

Scanning and Filtering a Source Program

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Abstract—Main theme of your assignment or academic projects.

I. INTRODUCTION

we have a C source program scanned and filtered as it was done in Session 1. We now take that modified file as input, and separate the lexemes first. We further recognize and mark the lexemes as different types of tokens like keywords,

II. INPUT OUTPUT

Step 1: Lexemes are separated. Mark that two-character relational operators are also distinguished beside separators, one-character operators, parenthesis, number constants and alphanumeric strings with or without underscore. char c ; int x1 , x2; float y1, y2; x1 = 5; x2 = 10; y1 = 2.5+x145; y2 = 100.o5 x2/3;if(y1 != y2)c =0 y 0 ; else c =0 n 0 ;
Step 2. Lexemes are categorized under the categories kw for keyword, id for identifier, etc. Some may be labeled unk (unknown). [kwchar][idc][sep;][kwint][idx1][sep,][idx2][sep;][kwfloat][idy1][sep,][idy2][sep;][idx1]

III. CONCLUSION

Lexemes are categorized under the categories kw for keyword, id for identifier.