# Assignment 2 On Lexical Analysis

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Abstract—To write a program that reads any simple program as source and separates out the valid tokens from the source program.

### I. Introduction

As it is known that Lexical Analysis is the first phase of compiler also known as scanner. It converts the input program into a sequence of Tokens.

### II. AIMS

A C program consists of various tokens and a token is either a keyword, identifiers, operators, separators, parenthesis, numbers, symbol etc..

- 1) Keywords: Examples- for, while, if etc.
- 2) Identifier Examples- Variable name, function name etc.
- 3) Operators: Examples- '+', '++', '-' etc.
- 4) Separators: Examples-', '';' etc

# III. OUTPUT

Type the line of code below: unkn 100.05] 'unkn' Is a valid identifier '100.05 Is not a valid identifier

# IV. CONCLUSION

C program to detect tokens in a C program.

## V. CODE

Below is a C program to print all the keywords, literals, valid identifiers, invalid identifiers, integer number, real number in a given C program:

```
| Image: | I
```

Fig. 1.

Fig. 2.

```
| Management | Man
```

Fig. 3.

Fig. 4.

```
| class | clas
```

Fig. 5.