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

'int' Is a keyword
'a' Is a valid identifier
'=' Is an operator
'b' Is a valid identifier
'+' Is an operator
'2c 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:
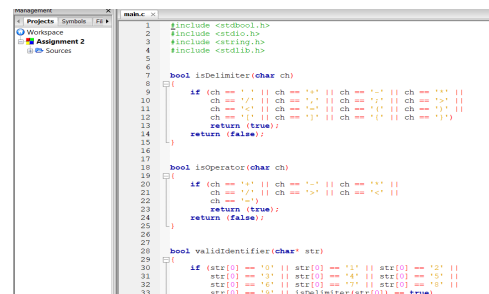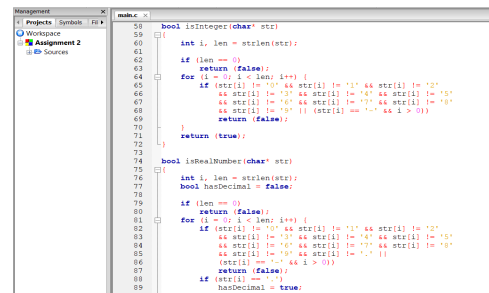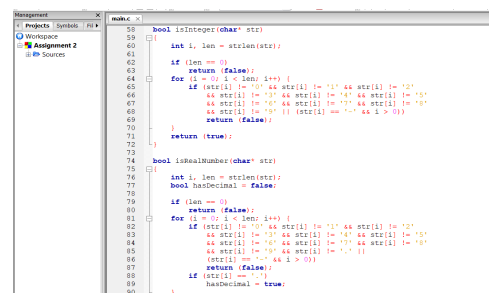

Fig. 1.

Fig. 2.

Fig. 3.