EXPNO-3

DEVELOP A LEXICAL ANALYZER TO RECOGNIZE A FEW PATTERNS IN C. (EX.IDENTIFIERS, CONSTANTS, COMMENTS, AND OPERATORS, ETC.) USING LEX TOOL.

AIM:

To develop a Lexical Analyzer using the LEX tool that recognizes different tokens in a given C program snippet, including Identifier, Constants, Comments, Operators, Keywords, Special Symbols.

PROGRAM: LEX.L

OUTPUT

```
kamali@Kamali:~$ lex lex.l
kamali@Kamali:~$ gcc lex.yy.c -o lexer
kamali@Kamali:~$ ./lexer
Enter a C code snippet:
#include<stdio.h> int main(){ printf("hello"); return 0; }
Unrecognized Character: #
Identifier: include
Operator: <
Identifier: stdio
Unrecognized Character: .
Identifier: h
Operator: >
Keyword: int
Identifier: main
Special Symbol: (
Special Symbol: )
Special Symbol: {
Identifier: printf
Special Symbol: (
Unrecognized Character: "
Identifier: hello
Unrecognized Character: "
Special Symbol: )
Special Symbol: ;
Keyword: return
Constant: 0
Special Symbol: ;
Special Symbol: }
```

RESULT:

Thus the above program reads a C code snippet, tokenizes it using LEX rules, recognizes and categorizes keywords, identifiers, constants, operators, comments, and special symbols, and then displays each token along with its type.

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