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Div: A-2

### CODE:-

{PRONOUN}

```
3A:-
%{
             *To implement a lexical analyzer for parts of speech without Symbol Table
            */
%}
VERB
                                    is |am| are |brought| disappeared | likes| exhausted | touch| trade| goes| down
ADVERB
                                         very|||quickly|tentatively|down
PREPOSITION to|from|behind|below|between|at|of|in
CONJUCTION if | then | and | but | or | until
ADJECTIVE his|young|long|two
NOUN
                                      boy|girl|John|letter|teacher|house|street|end|center|ring|boxers|gloves|punches|champ|letter|teacher|house|street|end|center|ring|boxers|gloves|punches|champ|letter|teacher|house|street|end|center|ring|boxers|gloves|punches|champ|letter|teacher|house|street|end|center|ring|boxers|gloves|punches|champ|letter|teacher|house|street|end|center|ring|boxers|gloves|punches|champ|letter|teacher|house|street|end|center|ring|boxers|gloves|punches|champ|letter|teacher|house|street|end|center|ring|boxers|gloves|punches|champ|letter|teacher|house|street|end|center|ring|boxers|gloves|punches|champ|letter|teacher|teacher|house|street|end|center|ring|boxers|gloves|punches|champ|letter|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher|teacher
PRONOUN
                                            me|she|who|his
DETERMINER althe
INTERJECTION Oh!|Wow!|Oops!
%%
[ \n\t]+
{VERB}
                                                           { printf("%s\t==> VERB\n",yytext); }
{ADVERB}
                                                                { printf("%s\t==> ADVERB\n",yytext); }
{PREPOSITION}
                                                                      { printf("%s\t==> PREPOSITION\n",yytext); }
{CONJUCTION}
                                                                     { printf("%s\t==> CONJUCTION\n",yytext); }
{ADJECTIVE}
                                                                 { printf("%s\t==> ADJECTIVE\n",yytext); }
{NOUN}
                                                            { printf("%s\t==> NOUN\n",yytext); }
```

{ printf("%s\t==> PRONOUN\n",yytext); }

```
{DETERMINER} { printf("%s\t==> DETERMINER\n",yytext); }
{INTERJECTION} { printf("%s\t==> INTERJECTION\n",yytext); }
. ;

%%
int yywrap(void){ }
int main()
{
    yylex();
    return 0;
}
```

#### **OUTPUT:-**

```
root@hall:-# cd Documents/LPCC/3rd week/Jam
root@hall:-/Documents/LPCC/3rd week/Jam 2m. la
root@hall:-/Documents/LPCC/3
```

#### 3C:-%{ %} **DIGIT** [0-9] **NUMBER** [-+]?[0-9]\*[-+]?[0-9]\*[.][0-9]+ **TEXT** [A-Za-z] PREPROCESSOR #include|#define|#undef **HEADERFILE** $[a-z]+\.h$ **KEYWORDS** auto|break|case|const|continue|default|enum|extern|goto|register|return|signedsizeof|static| struct|switch|typedef|union|unsigned|volatile **INBUILT** printf|scanf|clrscr\(\)|getch\(\)|main\(\) DATATYPE boolean|protected|double|byte|int|short|void|char|long|float CONDITIONAL if|switch|else|case **ITERATIVE** while|for|do STRINGLITERAL \"[^\n]\*\" **IDENTIFIER** $[A-Za-z$_]({DIGIT}|{TEXT}|_|$)*$ "+"|"-"|"/"|"%"|"\*" ARITH OP LOGICAL OP "&&"|"||"|"!"|"!=" "<"|">"|"<="|">="|"==" REL\_OP UNARY "++"|"--" "."|"{"|"}"|","|":"|"'"|";"|"("|")" FORMATSPECIFIER %d|%c|%s|%f %% [\n\t]+ {NUMBER} { printf("%s\t==> NUMBER\n",yytext); } {PREPROCESSOR} { printf("%s\t==> PREPROCESSOR\n",yytext); } { printf("%s\t==> HEADERFILE\n",yytext); } {HEADERFILE} {KEYWORDS} { printf("%s\t==> KEYWORDS\n",yytext); } {INBUILT} { printf("%s\t==> INBUILTFUNC\n",yytext); } {DATATYPE} { printf("%s\t==> DATATYPE\n",yytext); } { printf("%s\t==> CONDITIONAL\n",yytext); } {CONDITIONAL} { printf("%s\t==> ITERATIVE\n",yytext); } {ITERATIVE} {IDENTIFIER} { printf("%s\t==> IDENTIFIER\n",yytext); } {ARITH\_OP} { printf("%s\t==> ARITHMETIC OPERATOR\n",yytext); } { printf("%s\t==> LOGICAL OPERATOR\n",yytext); } {LOGICAL\_OP} { printf("%s\t==> RELATIONAL OPERATOR\n",yytext); } {REL\_OP} { printf("%s\t==> UNARY OPERATOR \n",yytext); } {UNARY} { printf("%s\t==> PUNCTUATION\n",yytext); } {SC} {FORMATSPECIFIER} { printf("%s\t==> FORMAT SPECIFIER\n",yytext); } {STRINGLITERAL} { printf("%s\t==> STRINGLITERAL\n",yytext); } "=" { printf("%s\t==> ASSIGNMENT OP\n",yytext); } %% int yywrap(void){ } int main() yylex();

return 0;

}

#### **OUTPUT:-**

```
File Edit View Search Terminal Help

root@kali:-/Documents/LPCC/3rd week/3a# cd ..

root@kali:-/Documents/LPCC/3rd week/3c# cd scl.

root@kali:-/Documents/LPCC/3rd week/3c# gcc lex 3gl.l

root@kali:-/Documents/LPCC/3rd week/3c# gcc lex.yy.c

root@kali:-/Documents/LPCC/3rd week/3c# ./a.out

Binclude <stdio.h>

Downloads

### PREPROCESSOR

### Sinclude 
### South ##
```