EXP NO: 04

DATE: 1-0-2022

ASSIGNMENT 4

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Aim:

To solve the lex problems.

1. Write a lex program to copy the content from input file and replace the character "S" with "W" paste it in the output file.

CODE:

```
% {
  #include <stdio.h>
  #include <string.h>
% }
%%
[s] {
  fprintf(yyout,"%s","W");
  fprintf(yyout,"");
%%
int yywrap(){
  return 1;
int main(){
  extern FILE *yyin,*yyout;
  yyin=fopen("input.txt","r");
  yyout=fopen("output.txt","w");
  yylex();
  return 0;
```

OUTPUT:

Input.txt

Naveenkumar is a good boy s

Output.txt

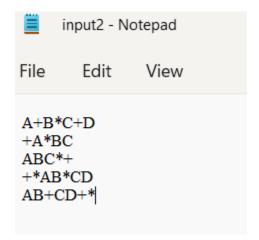
Naveenkumar iW a good boy W

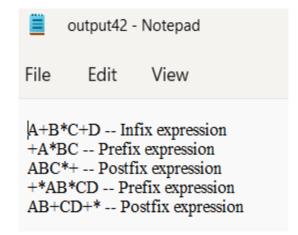
2. Write a lex program to read the expressions from a file and categorize into infix, prefix or post-fix into the output files.

CODE:

```
% {
#include<stdio.h>
%}
infix [a-zA-Z]+[a-zA-Z+/*]+[a-zA-Z)]+
prefix [+*/]+[a-zA-Z+*/]+[a-zA-Z]+
postfix [a-zA-Z]+[a-zA-Z+*/]+[+*/]+
%%
{infix} {fprintf(yyout,"\n%s -- Infix expression",yytext);}
{prefix} {fprintf(yyout,"\n%s -- Prefix expression",yytext);}
{postfix} {fprintf(yyout,"\n%s -- Postfix expression",yytext);}
%%
int main(){
extern FILE *yyin, *yyout;
yyin=fopen("input2.txt","r");
yyout=fopen("output42.txt","w");
yylex();
int yyerror(){
return 1;
int yywrap(){
return 1;
```

OUTPUT:





Result:

The programs has been executed successfully.

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