

| LEX PROGRAM FOR CAPITAL WORDS | LEX PROGRAM FOR EMAIL VALID OR NOT | LEX PROGRAM FOR MOBILE NUMBER VALID OR NOT |
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| <pre>%{ #include<stdio.h> }% %% [A-Z]+[\t\n] { printf("%s",yytext); } . ; %% Int yywrap(){ int main() { printf("Enter the input string:\n"); yylex(); }</pre> | <pre>%{ }% %% [a-z.0-9_]+@[a-z]+".com" "."in" { printf("it is valid");} .+ { printf("it is not valid");} %% int yywrap(){ int main() { printf("enter the mail:"); yylex(); }</pre> | <pre>%{ }% %% [6-9][0-9]{9} {printf("\n mobile number valid\n");} .+ {printf("\n mobile number invalid\n");} %% int yywrap(void){ int main() { printf("\n enter the mobile number:"); yylex(); printf("\n"); return 0; }</pre> |

| LEX PROGRAM FOR COUNT COMMENT LINES | LEX PROGRAM FOR COUNT OF POSITIVE NUMBER AND NEGATIVE NUMBER | LEX PROGRAM FOR HTML |
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| <pre>%{ #include<stdio.h> int nc=0; }% %% "/"[a-zA-Z0-9\n\t]*" */ {nc++;} //" [a-zA-Z0-9\n\t]*" \n" {nc++;} %% int yywrap(){} int main(int argc ,char* argv[]) { yyin=fopen(argv[1],"r");</pre> | <pre>%{ int positive_no = 0, negative_no = 0; }% %% ^- [0-9]+ {negative_no++; printf("negative number = %s\n",yytext);} [0-9]+ {positive_no++; printf("positive number = %s\n",yytext);} %% int yywrap(){</pre> | <pre>%{ #include<stdio.h> }% %% \<[^>]*\> fprintf(yyout,"%s\n",yytext); .\n; %% int yywrap() { return 1; }</pre> |



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| <pre>yyout=fopen("output.c","w"); yylex(); printf("The number of comment lines=%d\n",nc); }</pre> | <pre>int main() { yylex(); printf ("number of positive numbers = %d," "number of negative numbers = %d\n", positive_no, negative_no); return 0; }</pre> | <pre>int main() { yyin=fopen("sample.html","r"); yyout=fopen("output.txt","w"); yylex(); return 0; }</pre> |
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| LEX PROGRAM FOR IDENTIFIER OR NOT | LEX PROGRAM FOR COUNT VOWELS AND CONSONENTS | LEX PROGRAM FOR ADD LINE NUMBER |
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| <pre>%{ #include<stdio.h> }% %% [a-zA-Z][a-zA-Z0-9]+ { printf("\n%s is IDENTIFIER", yytext);} .+ { printf("\n%s is NOT AN IDENTIFIER",yytext);} %% int yywrap(){} int main() { while(yylex()); }</pre> | <pre>%{ int vow_count=0; int const_count=0; }% %% [aeiouAEIOU] {vow_count++;} [a-zA-Z] {const_count++;} %% int yywrap(){} int main() { printf("enter the string of vowels and consonents:"); yylex(); printf("number of vowels are:%d\n",vow_count); printf("number of consonents are:%d\n",const_count); return 0; }</pre> | <pre>%{ #include<stdio.h> int ln=0; }% %% .* {ln++; fprintf(yyout,"\n%d:%s",ln,yytext);} %% int yywrap(){} int main() { yyin=fopen("simple.txt","r"); yyout=fopen("out.txt","w"); yylex(); return 0; }</pre> |

| LEX PROGRAM FOR COMMENT OR NOT | LEX PROGRAM FOR DIGIT OR NOT | LEX PROGRAM FOR MACROS AND HEADER FILES |
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| <pre>%{ #include<stdio.h> }% %% [/]{2}.* { printf("\n%s is COMMENT", yytext);} .+ { printf("\n %s is NOT A COMMENT",yytext);} %%</pre> | <pre>%{ #include<stdio.h> }% %% [0-9]+ [0-9]*\.[0-9]+ { printf("\n%s is DIGIT", yytext);} .+ { printf("\n%s is NOT A DIGIT",yytext);}</pre> | <pre>%{ int nmacro, nheader; }% %% ^#define { nmacro++; } ^#include { nheader++; } %% int yywrap(void) {</pre> |



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| <pre>int yywrap(){ int main() { while(yylex()); }</pre> | <pre>%% int yywrap(){ int main() { while(yylex()); }</pre> | <pre>return 1; } int main() { yylex(); printf("Number of macros defined = %d\n", nmacro); printf("Number of header files included = %d\n", nheader); }</pre> |
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| LEX PROGRAM FOR KEYWORDS AND IDENTIFIERS | LEX PROGRAM FOR BASIC MATHEMATICAL OPERATIONS | LEX PROGRAM FOR DOB VALID OR NOT |
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| <pre>%{ #include<stdio.h> %} %% if else while int switch for char { printf("its a keyword");} [a-zA-Z0-9]+ { printf("\n%s is IDENTIFIER", yytext);} %% int yywrap(){} int main() { while(yylex()); }</pre> | <pre>%{ #include<stdio.h> %} %% "=" "+" "-" "/" "*" { printf("valid");} .+ {printf("invalid");} %% int yywrap(){ int main() { printf("enter the input:"); yylex(); return 0; }</pre> | <pre>%{ #include<stdio.h> %} %% [0-9][0-9]\ [0-1][0-9]\ [1-2][0-9]{3} { printf("valid");} .+ { printf("invalid");} %% int yywrap(){ int main() { yylex(); }</pre> |

| LEX PROGRAM FOR URL VALID OR NOT | LEX PROGRAM FOR COUNT NO OF TOKENS | LEX PROGRAM FOR SUBSTRING CONVERT abc to ABC |
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| | <pre>%{ int n = 0 ; %} %% "while" "if" "else" "int" "float" {n++;printf("\t keywords : %s", yytext);} [a-zA-Z_][a-zA-Z0-9_]* {n++;printf("\t identifier : %s", yytext);} "<=" "==" "+" "-" "/" "*" "+" {n++;printf("\t operator : %s", yytext);} [(){} ,;] {n++;printf("\t separator : %s", yytext);} [0-9]*\.[0-9]+ {n++;printf("\t float : %s", yytext);} [0-9]+ {n++;printf("\t integer : %s", yytext);}</pre> | <pre>%{ %} %% [a-z] {printf("%c",yytext[0]-32);} . {} %% int yywrap(void){ int main()</pre> |



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| | <pre>. ; %% int yywrap(){ return 1; } int main() { yylex(); printf("\n total no. of token = %d\n", n); }</pre> | <pre>{ printf("\nenter the string : "); yylex(); }</pre> |
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| LEX PROGRAM FOR NO.OF CHARS,LINES,WORDS | LEX PROGRAM FOR ALL CONSTANTS | LEX PROGRAM TO COUNT WORDS |
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| <pre>%{ int nlines,nwords,nchars; }% %% \n { nchars++;nlines++; } [^ \n\t]+ {nwords++, nchars=nchars+yyleng;} . {nchars++;} %% int yywrap(void) {} int main() { yylex(); printf("Lines = %d\nChars=%d\nWords=%d",nlines,nchars,nwords); return 0; }</pre> | <pre>%{ }% %% <INITIAL>[0-9]+ {printf("Integer\n");} <INITIAL>[0-9]+.[0-9]+ {printf("Float\n");} <INITIAL>[A-Za-z0-9_]* {printf("Identifier\n");} <INITIAL>[^\\n] {printf("Invalid\n");} %% int yywrap(){} int main() { printf("Enter String\n"); yylex(); return 0; }</pre> | <pre>%{ #include<stdio.h> #include<string.h> int i = 0; }% %% ([a-zA-Z0-9])* {i++;} "\n" {printf("%d\n", i); i = 0;} %% int yywrap(){} int main() { printf("Enter the Sentence :"); yylex(); return 0; }</pre> |
| LEX PROGRAM TO COUNT THE FREQUENCY OF THE CODE | Lex code to find the length of the longest word | Lex code to replace a word with another word in a file |



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| <pre>%{ int icount=0,factcount=0; }% %% fact factcount++; i icount++; (. \n) ; %% main() { yylex(); printf("Count of \"fact\"= %d \nCount of letter 'i' = %d\n",factcount,icount); return 0; }</pre> | <pre>%{ int counter = 0; }% %% [a - zA - Z] + { if (yyleng > counter) { counter = yyleng; } } %% int main() { yylex(); printf("largest%d",counter); printf("\n"); }</pre> | <pre>%{ #include <stdio.h> }% %% "greeks" { printf("ReplacementWord "); } . \n { putchar(yytext[0]); } %% int yywrap(){ return 1; } int main() { yylex(); return 0; }</pre> |
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