

LEX PROGRAM FOR CAPITAL WORDS	LEX PROGRAM FOR EMAIL VALID OR NOT	LEX PROGRAM FOR MOBILE NUMBER VALID OR NOT
<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>%{ }% %% [0-9][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
<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"); yyout=fopen("output.c","w");</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(){ } int main()</pre>	<pre>%{ #include<stdio.h> }% %% \<[^>]*\> fprintf(yyout,"%s\n",yytext); . \n; %% int yywrap() { return 1; } int main()</pre>

<pre>yylex(); printf("The number of comment lines=%d\n",nc); }</pre>	<pre>{ yylex(); printf ("number of positive numbers = %d," "number of negative numbers = %d\n", positive_no, negative_no); return 0; }</pre>	<pre>{ 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
<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
<pre>%{ #include<stdio.h> %} %%</pre>	<pre>%{ #include<stdio.h> %} %%</pre>	<pre>%{ int nmacro, nheader; %} %% ^#define { nmacro++; }</pre>

<pre>[/]{2}.* { printf("\n%s is COMMENT", yytext);} .+ { printf("\n %s is NOT A COMMENT",yytext);} %% int yywrap(){}</pre> <pre>int main() { while(yylex()); }</pre>	<pre>[0-9]+ [0-9]*\.[0-9]+ { printf("\n%s is DIGIT", yytext);} .+ { printf("\n%s is NOT A DIGIT",yytext);} %% int yywrap(){}</pre> <pre>int main() { while(yylex()); }</pre>	<pre>^#include { nheader++; } %% int yywrap(void) { 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
<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(){}</pre> <pre>int main() { printf("enter the input:"); yylex(); return 0; }</pre>	<pre>%{ #include<stdio.h> %} %% [0-9][0-9]V[0-1][0-9]V[1-2][0-9]{3} { printf("valid");} .+ { printf("invalid");} %% int yywrap(){}</pre> <pre>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
<pre>%{ %} %% ((http) (ftp))s?:\V/[a-zA-Z0-9]{2}\.[a-z]{2})+(\V[a-zA-Z0-9+=?]*)* {printf("\nURL InValid\n");} .+ {printf("\nURL valid\n");}</pre>	<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",</pre>	<pre>%{ %} %% [a-z] {printf("%c",yytext[0]-32);} . {} %%</pre>

<pre>%% int yywrap(){ void main() { printf("\nEnter URL : "); yylex(); printf("\n"); }</pre>	<pre>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);} . ; %% int yywrap(){ return 1; } int main() { yylex(); printf("\n total no. of token = %d\n", n); }</pre>	<pre>int yywrap(void){} int main() { 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
<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
<pre>%{ #include<stdio.h> #include<string.h> char word [] = "geeks"; int count = 0; }% [a-zA-Z]+ { if(strcmp(yytext, word)==0) count++; } . ; %% int yywrap(){} int main() { yyin=fopen("input.txt", "r"); yylex(); printf("%d", count); }</pre>	<pre>/*lex code to find the length of the longest word*/ % { int counter = 0; % } % % [a - zA - Z] + { if (yyleng > counter) { counter = yleng; } } % % main() { yylex(); printf("largest: %d", counter); printf("\n"); }</pre>	<pre>%{ #include<stdio.h> #include<string.h> char replace_with [] = "Best"; char replace [] ="A"; }% %% [a-zA-Z]+ { if(strcmp(yytext, replace)==0) fprintf(yyout, "%s", replace_with); else fprintf(yyout, "%s", yytext);} . fprintf(yyout, "%s", yytext); %% int yywrap() { return 1; } int main() { extern FILE *yyin, *yyout; yyin=fopen("input.txt", "r"); yyout=fopen("output.txt", "w"); yylex(); }</pre>