31.

%{

#include<stdio.h>

%}

%%

bool|int|float|main|printf {printf("\n%s is a Keyword",yytext);}

[-,+]?[0-9]+ {printf("\n%s is a Constants",yytext);}

[,.'"]+ {printf("\n%s is a Punctuation Chars",yytext);}

[!@#$%^&\*()]+ {printf("\n%s is a Special Chars",yytext);}

[a-zA-Z]+ {printf("\n%s is a Identifiers",yytext);}

%%

int yywrap()

{

return 1;

}

int main(int argc,char\* argv[])

{

yyin=fopen(argv[1],"r");

yyout=fopen("output.c","w");

yylex();

}

