EXPERIMENT: No.

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ASSIGNMENT 6

* AIM:

Write a lex program for the following:
- Reads text from an input file that contains URLs
- Count the URLs ending with .com, .edu and .org
- Display the counts on the screen
- Store the URLs in 3 different files, one for each URL

* CODE:

Sundaram

Teacher's Sign.: _____

```
%{
#include <stdio.h>
#include <stdlib.h>

int com_count = 0;
int edu_count = 0;
int org_count = 0;

FILE *com_file;
FILE *edu_file;
FILE *org_file;

%}

%%

[a-z0-9._%+-]+.com {
   fprintf(com_file, "%s\n", yytext);
   com_count++;
}

[a-z0-9._%+-]+.edu {
   fprintf(edu_file, "%s\n", yytext);
   edu_count++;
}

[a-z0-9._%+-]+.org {
   fprintf(org_file, "%s\n", yytext);
   org_count++;
}

.               ;

%%

int yywrap() {
   return 1;
}

int main(int argc, char **argv) {
   if (argc != 2) {
      fprintf(stderr, "Usage: %s <input_file>\n", argv[0]);
      return 1;
   }
FILE *links=fopen(argv[1], "r");
yyin=links;
   com_file = fopen("urls_com.txt", "w");
   edu_file = fopen("urls_edu.txt", "w");
```

```
    org_file = fopen("urls_org.txt", "w");

    if (!com_file || !edu_file || !org_file) {
        perror("Error opening output files");
        return 1;
    }
    yylex();

    printf(".com URLs: %d\n", com_count);
    printf(".edu URLs: %d\n", edu_count);
    printf(".org URLs: %d\n", org_count);

    fclose(com_file);
    fclose(edu_file);
    fclose(org_file);

    return 0;
}
```