|  |
| --- |
| **Name:**Liya Elizabeth Joe  **RollNo:**48 |
| **Exp. No:**13 **Date:**10/11/2020 |
| **Lex Program-Replace printf ,scanf with writef,readf** |
| **Aim:** LEX program to count the number of printf and scanf statements in C program and replace them with readf and writef statements. |
| **Program**  %{  #include<stdio.h>  int pf=0,sf=0;  %}  %%  "printf" {pf++;fprintf(yyout,"%s","writef");}  "scanf" {sf++;fprintf(yyout,"%s","readf");}  . {fprintf(yyout,"%s",yytext);}  %%  int yywrap()  {  return 1;  }  int main()  {  yyin = fopen("input.c","r");  yyout = fopen("output.c","w");  yylex();  remove("input.c");  rename("output.c","input.c");  printf("No of 'printf' statements : %d\n",pf);  printf("No of 'scanf' statements : %d\n",sf);  } |
| **Result:** Implemented a LEX program to count the number of printf and scanf statements in C program and replace them with readf and writef statements. |
| **Remarks:**(To be filled by faculty) |
| **Algorithm**   1. Start 2. Open two file pointers yyin in input mode to read input file and yyout in write mode. 3. In yylex() function whenever a parser encounters printf and scanf replace it with writef and readf and write into the output file. 4. Write all other characters into the output file also 5. Delete the input file and rename the output file as the name of input file. 6. Stop   **Sample Input and Output** |