1 b. Program to count the numbers of comment lines in a given C program. Also eliminate them and copy the resulting program into separate file

```
%{
#include<stdio.h>
int lncnt=0,cnt=0;
%}
%%
[/][\*] {if(cnt==0) cnt++;}
[\*][/] {if(cnt==1) cnt--; lncnt++;}
. {if(cnt==0) ECHO;
}
%%
int main(int argc,char **argv)
{
FILE *f1,*f2;
if(argc>1)
{
f1=fopen(argv[1],"r");
if(!f1)
{
printf("file error \n");
exit(1);
}
yyin=f1;
f2=fopen(argv[2],"w");
if(!f2)
{
printf("error");
exit(1);
}
yyout=f2;
yylex();
printf("number of comments in the program =%d \n",lncnt);
}
return 0;
}
int yywrap()
{
return 1;
```

}

OUTPUT:

```
root@localhost ~]# vi a.c
THE CONTENTS OF THE FILE a.c is
#include<stdio.h>
void main()
{int i;/*variable declaration*/
scanf("%d",&i);/*reading the value of i*/
printf("%d",i);/*printing the value of i*/
}

[root@localhost ~]# lex pg2.l
[root@localhost ~]# cc lex.yy.c -ll
[root@localhost ~]# ./a.out a.c b.c
number of comments in the program =3
[root@localhost ~]# vi b.c
THE CONTENTS OF THE FILE b.c is
#include<stdio.h>
void main()
{int i;
scanf("%d",&i);
printf("%d",i);
}
```