Exp. No. 21

Write a LEX program to count the number of comment lines in a given C program and eliminate them and write into another file.

Program: (comment.l)

```
%{
int com=0;
%}
%s COMMENT
%%
"/*" {BEGIN COMMENT;}
<COMMENT>"*/" {BEGIN 0; com++;}
<COMMENT>\n {com++;}
<COMMENT>. {;}
\/\/.* {; com++;}
.|\n {fprintf(yyout,"%s",yytext);}
%%
void main(int argc, char *argv[])
{
if(argc!=3)
{
printf("usage : a.exe input.c output.c\n");
exit(0);
}
yyin=fopen(argv[1],"r");
yyout=fopen(argv[2],"w");
yylex();
printf("\n number of comments are = %d\n",com);
}
int yywrap()
{
return 1;
}
```

Input Source File: (input.c)

```c
#include<stdio.h>
int main()
{

int a,b,c; /*varible declaration*/
printf("enter two numbers");
scanf("%d %d",&a,&b);
c=a+b;//adding two numbers
printf("sum is %d",c);
return 0;
}
```

OUTPUT:

```
Microsoft Windows [Version 10.0.22621.2715]
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C:\Users\Deepak>d:

D:\>cd Slots

D:\Slots>cd Compiler Design

D:\Slots\Compiler Design>flex Ex6Commentlines.l

D:\Slots\Compiler Design>gcc lex.yy.c

D:\Slots\Compiler Design>a.exe Ex6Commentlines.c
usage : a.exe input.c output.c

D:\Slots\Compiler Design>^Z
D:\Slots\Compiler Design>
D:\Slots\Compiler Design>
```