Practical - 2

AIM: Write a lex program to count the number of lines, tabs, characters, spaces, and words from the input C program. (Note: It is compulsory to read the input from the file and display the results in another file)

Example program:

```
%{
#include<stdio.h> int i=0; int l=0; int
t=0; int s=0; int c=0;
%}
%%
[a-zA-Z0-9]* i++;c+=yyleng;
\t t++;
([ ])+ s++;
\n ++l;
%%
int yywrap()
{
fprintf(yyout,"No of words=%d\n",i); fprintf(yyout,"No of
lines=%d\n",l); fprintf(yyout,"No of characters=%d\n",c);
fprintf(yyout,"No of Tabs = %d\n",t); fprintf(yyout,"No of Spaces
= %d\n",s); return 1;
} int main()
{
FILE *fp; fp=fopen("input.c","r"); if(fp==NULL)
{ printf("file not found"); return 0;
}
yyin=fp; //yylex(); yyout=fopen("output.txt","w");
yylex(); return 0;
}
```

Input.c FILE-

```
#include <stdio.h> void main() {
printf("Hello World"); }
```

OUTPUT:

```
#<.>(){("");}No of words=8
No of lines=4
No of characters=37
No of Tabs = 1
No of Spaces = 4
```