Compiler Design : Practical 2
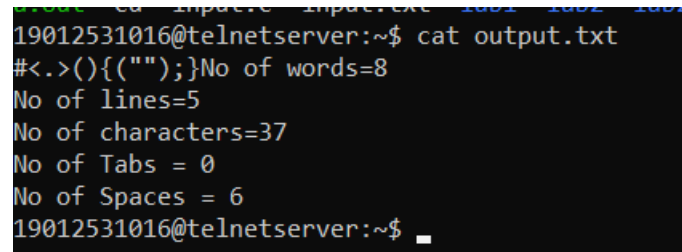
CODE:

LEX FILE-

```
%{
#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;
}
```

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Input.c FILE-

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

OUTPUT:

```
19012531016@telnetserver:~$ cat output.txt
#<.>(){("");}No of words=8
No of lines=5
No of characters=37
No of Tabs = 0
No of Spaces = 6
19012531016@telnetserver:~$ _
```