

Aim: Lex program to count number of words starting with 'A'.

Lex Program:

```
%option noyywrap
%{
#include <stdio.h>
int count = 0;
%}

%%
[Aa][a-zA-Z]* { count++; }
. ;

%%

int main(int argc, char **argv) {
if (argc != 2) {
printf("Usage: %s <input_file>\n", argv[0]);
return 1;
}

yyin = fopen(argv[1], "r");
if (!yyin) {
printf("Error: could not open input file\n");
return 1;
}

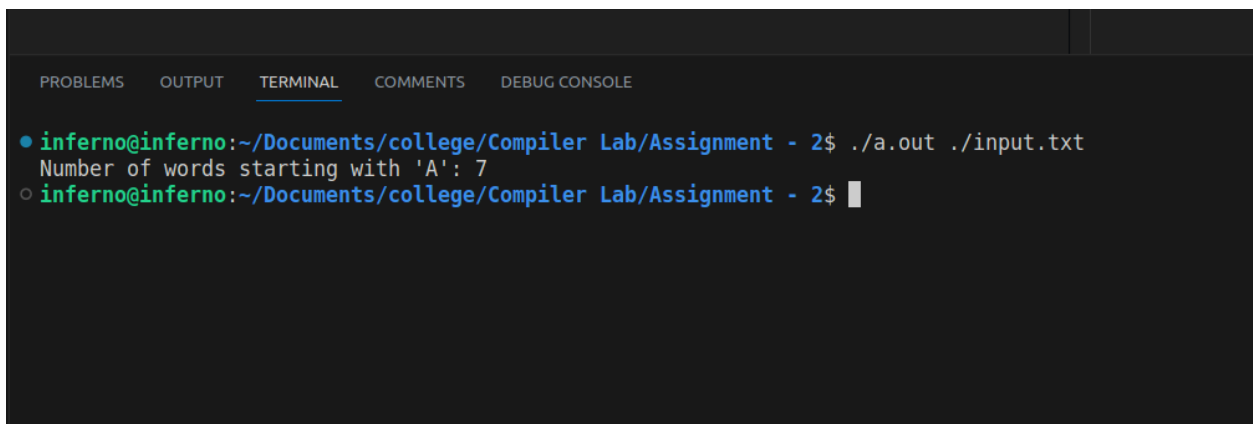
yylex();
printf("Number of words starting with 'A': %d\n", count);
return 0;
}
```

Input:

```
hello world
// comment
```

```
class
static
final
else if
asdfasdf
asdfasdf
a
aaaaaa
```

Output:



The screenshot shows a terminal window with a dark background. At the top, there are four tabs: "PROBLEMS", "OUTPUT", "TERMINAL" (which is selected and underlined), and "DEBUG CONSOLE". Below the tabs, the terminal displays the following text:

```
● inferno@inferno:~/Documents/college/Compiler Lab/Assignment - 2$ ./a.out ./input.txt
Number of words starting with 'A': 7
○ inferno@inferno:~/Documents/college/Compiler Lab/Assignment - 2$
```

The prompt character is a green circle, and the cursor is a white block at the end of the second line.