

COMPILER DESIGN

ASSIGNMENT – 4

Name: Ajinkya B. Thakare

Class: TY – CS – B

Roll No.: 75

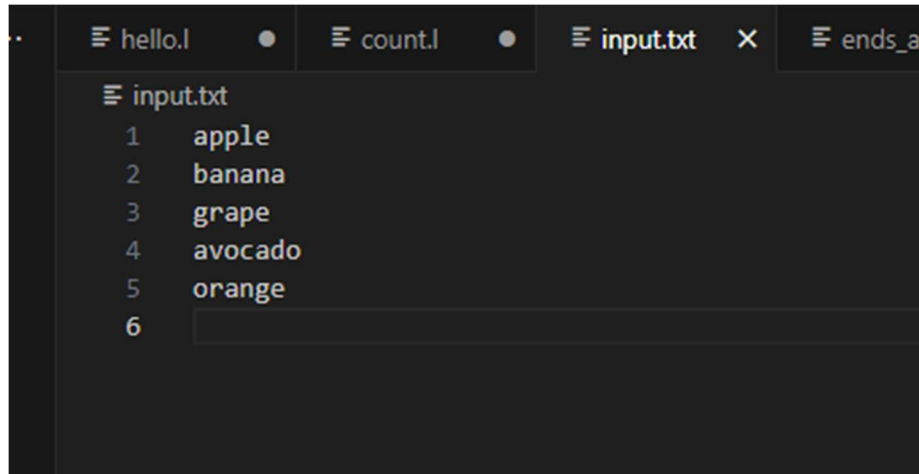
PRN: 12320070

Q.Implement LEX/FLEX code to select only lines that begin or end with the letter 'a' and delete everything else.

```
%{  
  
#include <stdio.h>  
  
int yywrap(void) {  
    return 1;  
}  
  
%}  
  
%%  
  
^a.*\n      { ECHO; }  
  
.*a\n      { ECHO; }  
  
.| \n      {}  
  
%%
```

```
int main() {  
  
    yylex(); // Start lexical analysis  
  
    return 0;  
}
```

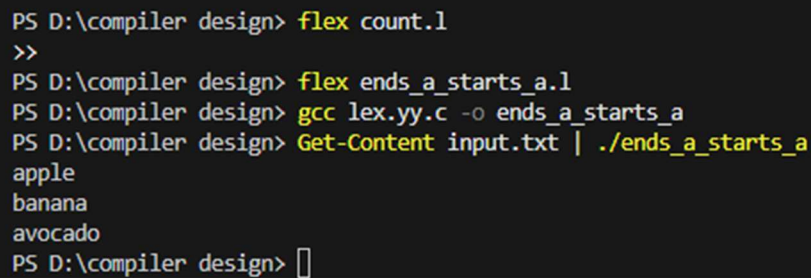
Input file:



The screenshot shows a text editor with four tabs: 'hello.l', 'count.l', 'input.txt', and 'ends_a_'. The 'input.txt' tab is active, displaying a list of fruits with line numbers 1 through 6. Line 6 is currently empty.

```
1  apple  
2  banana  
3  grape  
4  avocado  
5  orange  
6
```

Output:



The screenshot shows a PowerShell terminal window with the following commands and output:

```
PS D:\compiler design> flex count.l  
>>  
PS D:\compiler design> flex ends_a_starts_a.l  
PS D:\compiler design> gcc lex.yy.c -o ends_a_starts_a  
PS D:\compiler design> Get-Content input.txt | ./ends_a_starts_a  
apple  
banana  
avocado  
PS D:\compiler design> 
```