

Exp 5 : NO OF VOWELS & CONSONANTS

1. Start
2. Lex Section Declarations - Declare global variables vowel_count and consonant_count
3. Lex Section Rules
 1. [aeiouAEIOU] : vowel_count++
 2. [a-zA-Z] : consonant_count++
 3. For any other character (.) : Skip the character
4. yywrap Function - Return 1 to indicate end of input
5. Main function
 1. Print a prompt to enter text
 2. Call yylex to initiate lexical analysis
 3. Print the total number of vowels and consonants
6. Stop

Vowels & Consonants (Lex)

```
%{
#include <stdio.h>
int vowel_count = 0;
int consonant_count = 0;
}%

%%
[aeiouAEIOU] { vowel_count++; }
[a-zA-Z] { consonant_count++; }
. ;
%%

int yywrap(){
    return 1;
}

int main(){
    printf("Enter text (Ctrl+D to end input):\n");
    yylex();
    printf("Number of vowels: %d\n", vowel_count);
    printf("Number of consonants: %d\n", consonant_count);
    return 0;
}
```

output

```
● deadpool@daredevil:~/Desktop/s7-CD/02 LEX/Vowels & Consonants$ flex v_and_c.l
● deadpool@daredevil:~/Desktop/s7-CD/02 LEX/Vowels & Consonants$ gcc lex.yy.c -o vc
● deadpool@daredevil:~/Desktop/s7-CD/02 LEX/Vowels & Consonants$ ./vc
Enter text (Ctrl+D to end input):
this lex porgram counts no of vowels and consonants in a sentence

Number of vowels: 19
Number of consonants: 35
● deadpool@daredevil:~/Desktop/s7-CD/02 LEX/Vowels & Consonants$
```