

Practical No. 7

Aim: Write a LEX program to count the number of vowels and consonants in a given string.

Requirement: GCC

Program:

```
% {
    int vowelCount=0;
    int consonantCount =0;
% }
%option noyywrap
%%
[aAeEiIoOuU]    {
                    vowelCount++;
                }
[a-zA-Z]         {
                    consonantCount++;
                }
.                ;

%%

int main()
{
    printf("Enter a string:\n");
    yylex();
    printf("Vowels: %d\nConsonants: %d\n", vowelCount, consonantCount);
    return 0;
}
```

Output:

//Paste a color printout of the output here.

Conclusion:

Thus, a program to find the FIRST set of all the non-terminals in the given grammar is implemented successfully.