

32&33:VOWELS LEX PROGRAM:

```
%{
int nchar, nword, nline;
%}
%%
\n { nline++; nchar++; }
[^\t\n]+ { nword++, nchar += yyleng; }
. { nchar++; }
%%
int yywrap(void) {
return 1;
}
int main(int argc, char *argv[]) {
yyin = fopen(argv[1], "r");
yylex();
printf("Number of characters = %d\n", nchar);
printf("Number of words = %d\n", nword);
printf("Number of lines = %d\n", nline);
fclose(yyin);
}%{
    int vow_count=0;
    int const_count =0;
}%}

%%
[aeiouAEIOU] {vow_count++;}
[a-zA-Z] {const_count++;}
%%
int yywrap(){}
int main()
{
    printf("Enter the string of vowels and consonants:");
    yylex();
    printf("Number of vowels are: %d\n", vow_count);
    printf("Number of consonants are: %d\n", const_count);
    return 0;
}
```

OUTPUT:

```
C:\Windows\System32\cmd.exe X + v
Microsoft Windows [Version 10.0.22621.1702]
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C:\CD-Lex Experiments-2>flex Vowels.l.txt

C:\CD-Lex Experiments-2>gcc lex.yy.c

C:\CD-Lex Experiments-2>a.exe
Enter the string of vowels and consonants:: Vowel sounds allow the air to flow freely, causing the chin to drop noticeably, whilst consonant sounds
are produced by restricting the air flow.
:
Number of vowels are: 42
Number of consonants are: 77

C:\CD-Lex Experiments-2>
```