numvowelsconsonants.l

```
%{
    #include <stdio.h>
    int v = 0;
    int c = 0;
%}

%%
[ \t\n]     ;
[aeiouAEIOU] { v++; }
[a-zA-Z]    { c++; }
.           ;
%%

int yywrap() {
    return 1;
}
int main() {
    printf("Enter the string: ");
    yylex();
    printf("No of vowels = %d\n", v);
    printf("No of consonants = %d\n", c);
    return 0;
}


/*
ALGORITHM
1. Start
2. Initialize counter vowels 'v' and consonants 'c' and set them to 0
3. Define Lexical Rules:
    3.1 [ \t\n]: Matches spaces, tabs and newline characters, ignore and do nothing
    3.2 [aeiouAEIOU]: Matches any vowels, increment vowel count by 1
    3.3 [a-zA-Z]: Matches any aphabetic character, increment consonant count by 1
4. main() function:
    4.1 Get user input
    4.2 Invokes yylex() to perform lexical analysis
    4.3 Prints the output
5. yywrap() function:
    5.1 Called when input exhausted
    5.2 Return 1 to show EOF
6. Stop
*/
```