Lab – 4

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1) Write a lex program to input a sentence and count the number of vowels and consonents
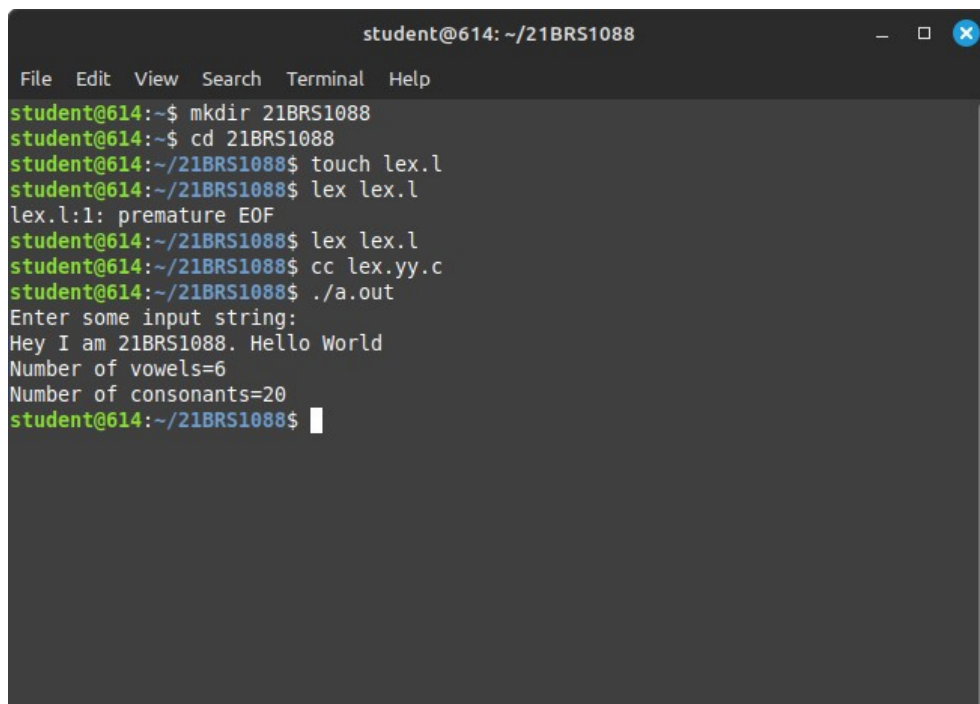
Code-

```
%{
        #include<stdio.h>
        int vow=0, con=0;
%}

%%
[ \t\n]+    ;
[aeiouAEIOU]+    {vow++;}
[^aeiouAEIOU]    {con++;}
%%

int main( )
{
        printf("Enter some input string:\n");
        yylex();
        printf("Number of vowels=%d\n",vow);
        printf("Number of consonants=%d\n",con);
}

int yywrap( )
{
        return 1;
}
```

2) Write a lex program to input a sentence and count
      a) No of characters
      b) No of words
      c) No of spaces

Code
```
%{
    #include <stdio.h>
    int words=0,spaces=0,cc=0;

%}

%%
[ \t]  {spaces++;cc+=yyleng;}
[^\t\n ]+ {words++;cc+=yyleng;}


%%

int main(int argc, char* argv[])
{
        printf("Enter some input string:\n");
        yylex();
        printf("Number of words=%d\n",words);
    printf("Number of spaces=%d\n",spaces);
    printf("Number of characters=%d\n",cc);
}

int yywrap(){
    return 1;}
```