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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 \] + ;
[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;
}
```

```
### student@614:~/21BRS1088

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### student@614:~$ mkdir 21BRS1088

### student@614:~$ cd 21BRS1088

### student@614:~$ cd 21BRS1088$ touch lex.l

### student@614:~$ cd 21BRS1088$ touch lex.l

### student@614:~$ cd 21BRS1088$ lex lex.l

### student@614
```

```
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;}
[\wedge t ] + \{words++; cc+=yyleng;\}
%%
int main(int argc, char* argv[])
       printf("Enter some input string:\n");
       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;}

}

