

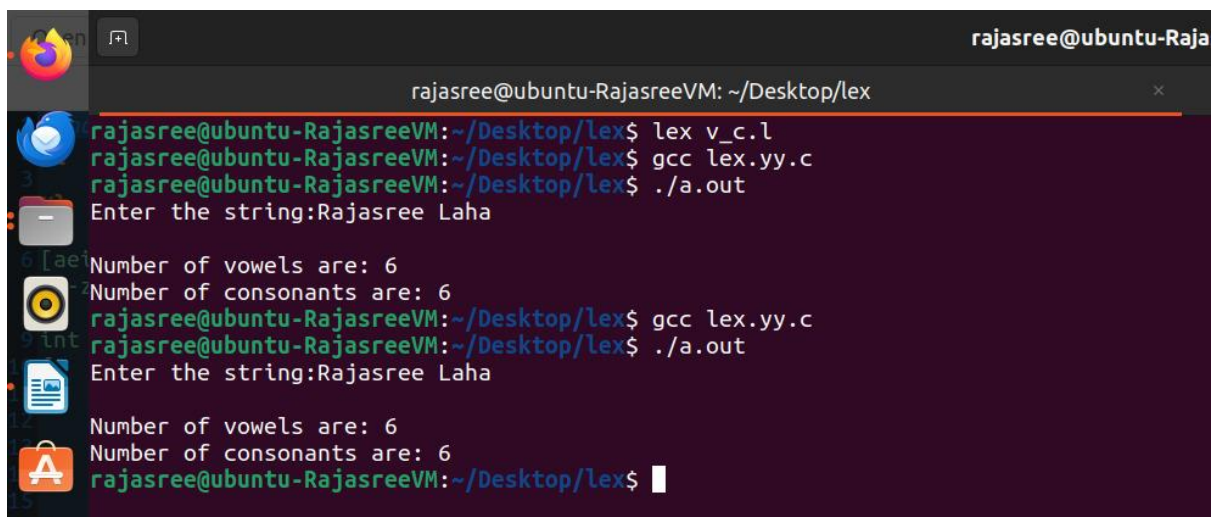
Q.1>>Write a lex prog/code to count the no. Of vowels & consonants in a string.

```
%{
    int v=0,c=0;
}%
%%
[aeiouAEIOU] {v++;}
[a-zA-Z] {c++;}
%%
int main()
{
    printf("Enter the string:");
    yylex();
    printf("Number of vowels are: %d\n", v);
    printf("Number of consonants are: %d\n", c);
    return 0;
}
int yywrap()
{
    return 1;
}
Or))

%{
    int v=0,c=0;
}%
%%
[aeiouAEIOU] {v++;}
[b-df-hj-np-tv-zB-DF-HJ-NP-TV-Z] {c++;}
%%
```

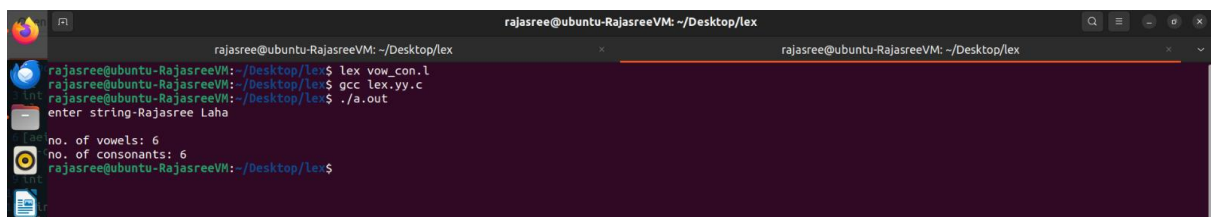
```
int main()
{
printf("enter string-");
yylex();
printf("no. of vowels: %d\n",v);
printf("no. of consonants: %d\n",c);
return 0;
}

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



A terminal window titled "rajasree@ubuntu-RajasreeVM: ~/Desktop/lex" showing the execution of a C program. The user enters the string "Rajasree Laha". The program outputs "Number of vowels are: 6" and "Number of consonants are: 6". The user then runs the program again, and the output is the same.

```
rajasree@ubuntu-RajasreeVM: ~/Desktop/lex
rajasree@ubuntu-RajasreeVM:~/Desktop/lex$ lex v_c.l
rajasree@ubuntu-RajasreeVM:~/Desktop/lex$ gcc lex.yy.c
rajasree@ubuntu-RajasreeVM:~/Desktop/lex$ ./a.out
Enter the string:Rajasree Laha
Number of vowels are: 6
Number of consonants are: 6
rajasree@ubuntu-RajasreeVM:~/Desktop/lex$ gcc lex.yy.c
rajasree@ubuntu-RajasreeVM:~/Desktop/lex$ ./a.out
Enter the string:Rajasree Laha
Number of vowels are: 6
Number of consonants are: 6
rajasree@ubuntu-RajasreeVM:~/Desktop/lex$
```



A terminal window titled "rajasree@ubuntu-RajasreeVM: ~/Desktop/lex" showing the execution of a C program. The user enters the string "Rajasree Laha". The program outputs "no. of vowels: 6" and "no. of consonants: 6". The user then runs the program again, and the output is the same.

```
rajasree@ubuntu-RajasreeVM: ~/Desktop/lex
rajasree@ubuntu-RajasreeVM:~/Desktop/lex$ lex vow_con.l
rajasree@ubuntu-RajasreeVM:~/Desktop/lex$ gcc lex.yy.c
rajasree@ubuntu-RajasreeVM:~/Desktop/lex$ ./a.out
enter string-Rajasree Laha
no. of vowels: 6
no. of consonants: 6
rajasree@ubuntu-RajasreeVM:~/Desktop/lex$
```