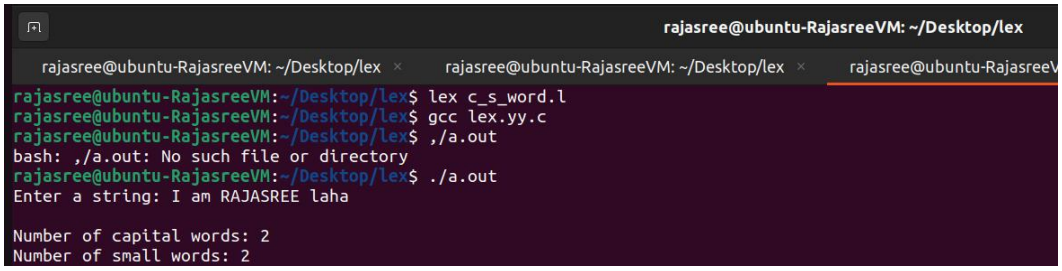
Q.3>>Write a lex prog/code to count the no. Of capital & small words in a string.

```
%{

int c=0,s=0;

%}



%%

[A-Z]+ {c++;}

[a-z]+ {s++;}

. ;       // indicates that any character (except newline) that doesn't match the previous patterns should be ignored.( . means accepts everything,; means do nothing . ; means accepts everything will do nothing(ie it wll not accept space,enter etc,it will accept reg ex matchings)



%%



int main()

{

   printf("Enter a string: ");

   yylex();

   printf("Number of capital words: %d\n", c);

   printf("Number of small words: %d\n", s);

   return 0;

}



int yywrap()

{

   return 1;

}
```



Or)

```
%{

int c=0,s=0;

%}

%%

[A-Z+]+[^a-z] {c++;}

[a-z]+[^A-Z] {s++;}

. ;

%%

int main()

{

        printf("enter string- ");

        yylex();

        printf("no. of caps: %d \n",c);

        printf("no. of smalls: %d \n",s);

        return 0;

}

int yywrap()

{

return 1;

}
```

```
rajasree@ubuntu-RajasreeVM:~/Desktop/lex$ lex cs_w.l
rajasree@ubuntu-RajasreeVM:~/Desktop/lex$ gcc lex.yy.c
rajasree@ubuntu-RajasreeVM:~/Desktop/lex$ ./a.out
enter string- I am RAJASREE laha
no. of caps: 2
no. of smalls: 2
rajasree@ubuntu-RajasreeVM:~/Desktop/lex$
```