Experiment 4

4.Design a lexical Analyzer to find the number of whitespaces and newline characters.

Program:

#include<stdio.h>

int main()

{

char ch;

int spaces=0,newlines=0;

printf("Enter a string (ctrl+z to end): \n");

while((ch = getchar()) != EOF)

{

if (ch ==' ') {

spaces++;

}

else if(ch == '\n'){

newlines++;

}

}

printf("Number of spaces:%d\n",spaces);

printf("number of newlines:%d\n",newlines);

return 0;

}

Output:

