**Exp. No. 3**

**Design a lexical Analyzer to find the number of whitespaces and newline characters using C.**

#include <stdio.h>

#include <string.h>

int main()

{

char str[100];

int i, whitespaces = 0, newlines = 0;

printf("Enter a string: ");

gets(str); // Reads the string

for (i = 0; i < strlen(str); i++)

{

if (str[i] == ' ')

whitespaces++;

if (str[i] == '\n')

newlines++;

}

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

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

return 0;

}

**OUTPIUT:**

