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

```
#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;
     inter input string (end with Ctrl+D or Ctrl+Z):
         er of whitespaces: 3
er of newline characters: 1
     Process exited after 48.92 seconds with return value 0
Press any key to continue . . .
```