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;
}
```