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

```
#include <stdio.h>

void lexical_analyzer(char input_string[])
{
    int whitespaces = 0;
    int newlines = 0;
    int i;
    for (i = 0; input_string[i] != '\0'; i++)
    {
        if (input_string[i] == ' ')
        {
            whitespaces++;
        }
        else if (input_string[i] == '\n')
        {
            newlines++;
        }
    }
    printf("Number of white spaces: %d\n", whitespaces);
    printf("Number of newline characters: %d\n", newlines);
}

int main()
{
    char input_string[] = "This is a sample input string\nwith multiple lines and\nwhite spaces.";
```

```
    lexical_analyzer(input_string);
    return 0;
}
```