

EXP03:

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

INPUT:

```
#include <stdio.h>
#include <string.h>
```

```
int main() {
    char str[1000];
    printf("Enter a string: ");
    fgets(str, 1000, stdin);
```

```
    int whitespaces = 0;
    int newlines = 0;
    int len = strlen(str);
```

```
    for (int i = 0; i < len; i++) {
        if (str[i] == ' ') {
            whitespaces++;
        } else if (str[i] == '\n') {
            newlines++;
        }
    }
}
```

```
printf("Number of whitespaces: %d\n", whitespaces);
printf("Number of newline characters: %d\n", newlines);
```

```
    return 0;
}
```

OUTPUT:

```
C:\Users\koppo\Documents\k  
+ v  
Enter a string: h e l l o  
Number of whitespaces: 4  
Number of newline characters: 1  
-----  
Process exited after 6.901 seconds with return value 0  
Press any key to continue . . . |
```