

Expno.3

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

```
#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;
```

```
}
```

C:\Users\saidh\OneDrive\Documents\compiler design\lexical analyzer using whitespaces.exe

Enter a string: world

Number of whitespaces: 0

Number of newline characters: 1

.....

Process exited after 10.65 seconds with return value 0

Press any key to continue . . .