

## Experiment 4

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

Program:

```
#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;
}
```

# Output:

```
C:\Users\javv\OneDrive\Doc... X + -
Enter a string (ctrl+z to end):
compiler design
dishitha
^Z
Number of spaces:1
number of newLines:2

-----
Process exited after 29.17 seconds with return value 0
Press any key to continue . . . |
```

