

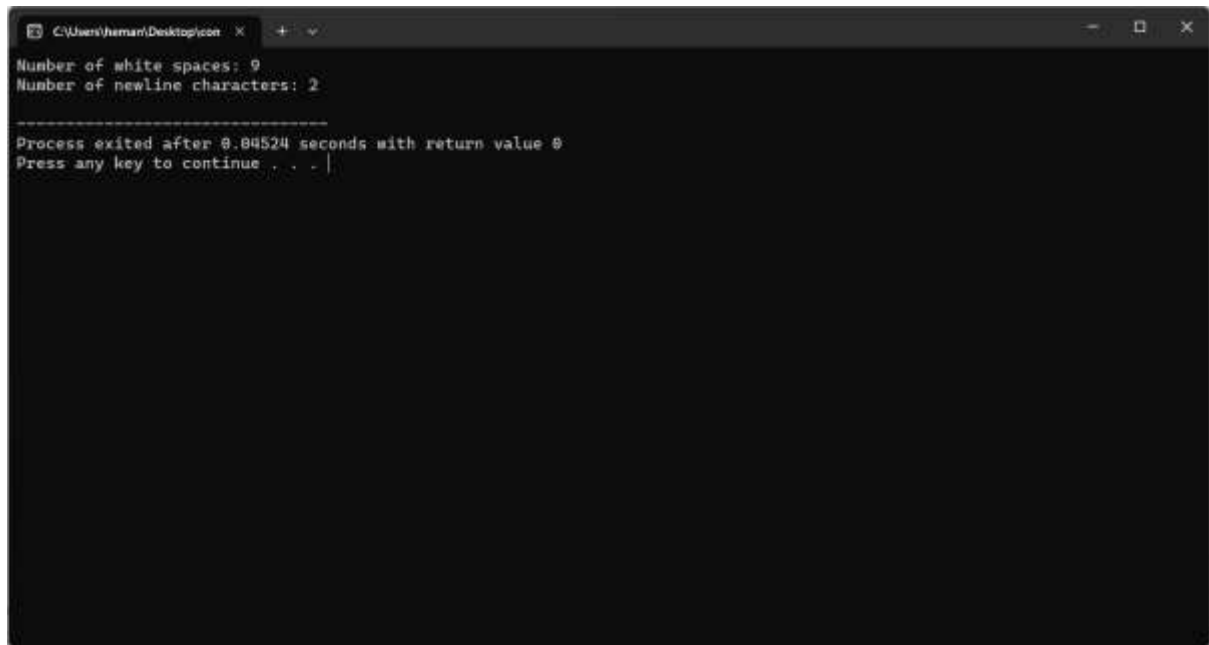
# Design a lexical Analyzer to find the number of whitespaces and newline characters.

```
#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;  
}
```



A screenshot of a Windows command prompt window. The title bar shows the file path "C:\Users\haman\Desktop\con" and standard window controls. The output text is as follows:

```
Number of white spaces: 9  
Number of newline characters: 2  
-----  
Process exited after 0.04524 seconds with return value 0  
Press any key to continue . . . |
```