

Assignment 7-A

code:

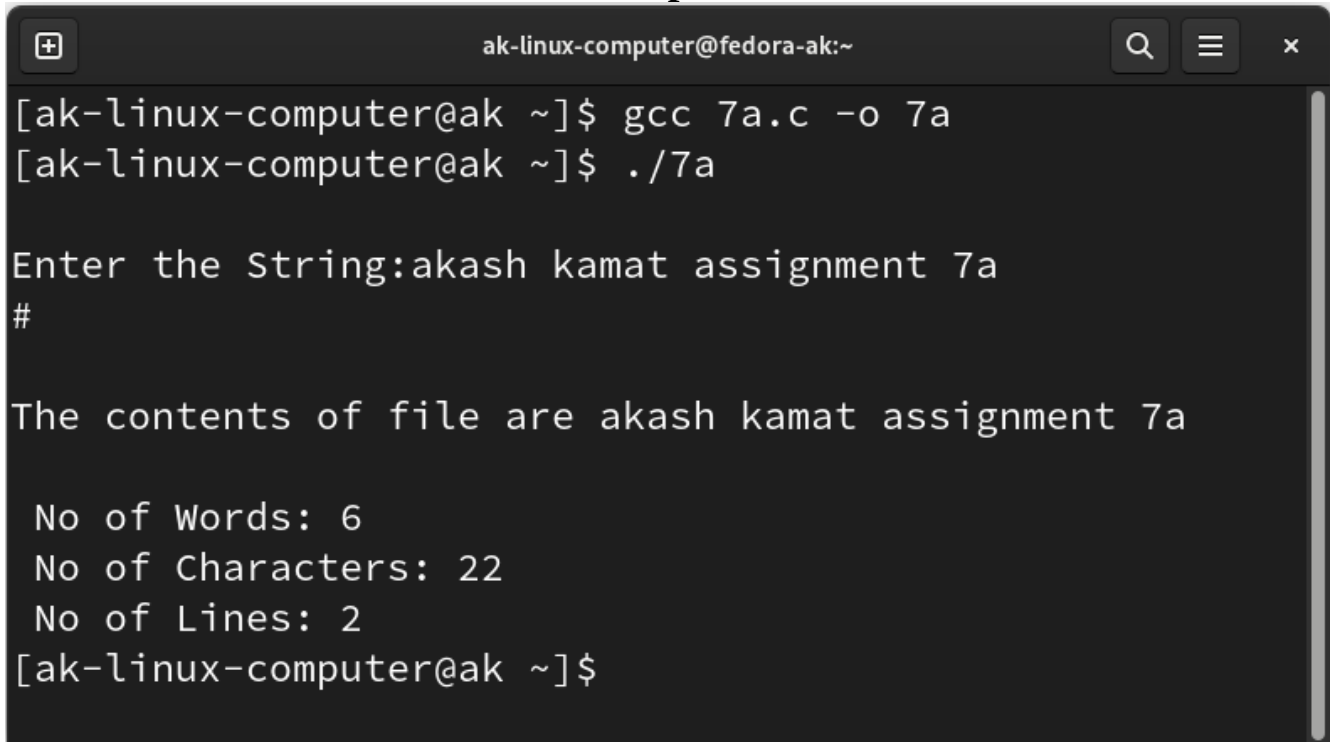
```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <fcntl.h>
#include <sys/stat.h>

#define MAX_BUF 1024

int main()
{
    int fd, c = 0;
    char *fifo1 = "fifo1";
    char *fifo2 = "fifo2";
    int fd1;
    int words = 1, lines = 1, chars = 0;
    char buf1[MAX_BUF];
    mkfifo(fifo1, 0666);
    fd = open(fifo1, O_RDWR);
    char str;
    printf("\nEnter the String:");
    while ((str = getchar()) != '#')
        buf1[c++] = str;
    buf1[c] = '\0';
    write(fd, buf1, sizeof(buf1));
    close(fd);
    unlink(fifo1);
    fd1 = open(fifo2, O_RDWR);
    read(fd1, buf1, sizeof(buf1));
    printf("\nThe contents of file are %s", buf1);
    int i = 0;
    while (buf1[i] != '\0')
    {
        if (buf1[i] == ' ' || buf1[i] == '\n')
        {
            words++;
        }
        else
        {
            chars++;
        }
        if (buf1[i] == '\n')
        {
            lines++;
        }
    }
}
```

```
    i++;  
}  
printf("\n No of Words: %d", words);  
printf("\n No of Characters: %d", chars);  
printf("\n No of Lines: %d\n", lines);  
close(fd1);  
return 0;  
}
```

Output:

A terminal window with a dark background and light gray text. The window title bar shows 'ak-linux-computer@fedora-ak:~' and standard window controls. The terminal content shows the compilation and execution of a C program. The program prompts for a string, which is 'akash kamat assignment 7a'. It then outputs statistics: 6 words, 22 characters, and 2 lines.

```
ak-linux-computer@fedora-ak:~  
[ak-linux-computer@ak ~]$ gcc 7a.c -o 7a  
[ak-linux-computer@ak ~]$ ./7a  
  
Enter the String:akash kamat assignment 7a  
#  
  
The contents of file are akash kamat assignment 7a  
  
No of Words: 6  
No of Characters: 22  
No of Lines: 2  
[ak-linux-computer@ak ~]$
```