

## Sender

```
#include <sys/stat.h>
#include <stdio.h>
#include <string.h>
#include <fcntl.h>
#include <unistd.h>
#define FIFO_PIPE "xyz"

int main()
{
    int fd, i = 0;
    char str[200], ch;

    mkfifo(FIFO_PIPE, 0644);

    printf("\n Enter Your message (press @ to terminate) \n");
    while ((ch = fgetc(stdin)) != '@')
    {
        str[i++] = ch;
    }

    str[i] = '\0';

    fd = open(FIFO_PIPE, O_WRONLY);
    write(fd, str, strlen(str));

    close(fd);
    return 0;
}
```

## Receiver

```
#include <stdio.h>
#include <string.h>
#include <fcntl.h>
#include <unistd.h>
#define FIFO_PIPE "xyz"

int main()
{
    int fd, i, c = 0, w = 0, l = 0;
    char str[100];

    // mkfifo(FIFO_PIPE, 0777); // mkfifo - create named pipe special file with 777 permission

    fd = open(FIFO_PIPE, O_RDONLY); // Open a File in Read Only Mode
    read(fd, str, sizeof(str)); // Read file and store into "str" buffer

    printf("\nReceived Data : %s", str); // Print "str"

    for (i = 0; str[i] != '\0'; i++) // Calculate no of lines, words and characters
    {
        if (str[i] == ' ' || str[i] == '\n')
            w++;
        if (str[i] == '\n')
            l++;
        c++;
    }
    printf("\n No of characters = %d", c); // print no of lines, words and characters
}
```

```
printf("\n No of lines = %d", l + 1);  
printf("\n No of words = %d \n", w + 1);
```

```
close(fd);  
return 0;  
}
```

Fish /home/sapatevaibhav/Documents/OSL	Fish /home/sapatevaibhav/Documents/OSL
<pre>sapatevaibhav@sapatevaibhav-mint ~/D/OSL (master)&gt; gcc sender.c -o sender &amp;&amp; sender  Enter Your message (press @ to terminate) Hello Bharat! I am student From Information Technology Sinhgad College of Engineering Good to see you @ sapatevaibhav@sapatevaibhav-mint ~/D/OSL (master)&gt; gcc sender.c -o sender &amp;&amp; sender  Enter Your message (press @ to terminate) Have a nice day to you always hope for best see you  @ sapatevaibhav@sapatevaibhav-mint ~/D/OSL (master)&gt; █</pre>	<pre>sapatevaibhav@sapatevaibhav-mint ~/D/OSL (master)&gt; gcc receiver.c -o receiver &amp;&amp; receiver  Received Data : Hello Bharat! I am student From Information Technology Sinhgad College of Engineering Good to see yo No of characters = 100 No of lines = 5 No of words = 16 sapatevaibhav@sapatevaibhav-mint ~/D/OSL (master)&gt; gcc receiver.c -o receiver &amp;&amp; receiver  Received Data : Have a nice day to you always hope for best see you  No of characters = 56 No of lines = 8 No of words = 17 sapatevaibhav@sapatevaibhav-mint ~/D/OSL (master)&gt; █</pre>