

//FIFO 1

```
#include<stdio.h>
#include<unistd.h>
#include<sys/types.h>
#include<sys/stat.h>
#include<fcntl.h>
#include<string.h>
#define max_buf 100

int main()
{
    char *myfifo1="myfifo1",*myfifo2="myfifo2",arr[50];
    mkfifo(myfifo1,0666);
    int i,words,lines;
    int fd;
    fgets(arr,50,stdin);
    fd=open(myfifo1,O_WRONLY);
    write(fd,arr,strlen(arr)+2);
    close(fd);
    unlink(myfifo1);

    int fd1;
    fd1=open(myfifo2,O_RDONLY);
    read(fd1,&i,sizeof(i));
    printf("Total characters: %d\n",i);
    read(fd1,&words,sizeof(words));
    printf("Total word: %d\n",words);
    read(fd1,&lines,sizeof(lines));
    printf("Total Lines: %d\n",lines);
    close(fd1);
}
```

//FIFO 2

```
#include<stdio.h>
#include<unistd.h>
#include<sys/types.h>
#include<sys/stat.h>
#include<fcntl.h>
#define max_buf 100

int main()
{
    char *myfifo1="myfifo1",*myfifo2="myfifo2";
    char buf[50];
    FILE *fp;
    int i=0,words=0,lines=0;
    mkfifo(myfifo2,0777);
    int fd,fd1;
    fd=open(myfifo1,O_RDWR);
    read(fd,buf,max_buf);
```

```

printf("\nMessage received is: %s",buf);
while(buf[i]!='\0')
{
    while(buf[i]==' ')
    {
        words++,i++;
    }
    if(buf[i]=='.'||buf[i]=='?'||buf[i]=='!')
    {
        lines++,i++;
    }
    i++;
}

printf("\n Total no. of characters:%d",i);
fp=fopen("abc.txt","w+");
fprintf(fp,"Total characters=%d",i);

printf("\n Total no. of words:%d",words);
fp=fopen("abc.txt","w+");
fprintf(fp,"Total characters=%d",words);

printf("\n Total no. of characters:%d",lines);
fp=fopen("abc.txt","w+");
fprintf(fp,"Total no. of lines=%d",lines);
fclose(fp);
unlink(myfifo1);

fd1=open(myfifo2,O_RDWR);
write(fd1,&i,sizeof(i));
write(fd1,&words,sizeof(words));
write(fd1,&lines,sizeof(lines));
close(fd1);
return 0;
}

```

kalikali@pavan:/mnt/2ADC0CA1DC0C6A01/TEIT/OS/LAB

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Message received is: Hello Im Adnan Patil

Total no. of characters:21

Total no. of words:3

Total no. of characters:0kalikali@pavan:/mnt/2ADC0CA1DC0C6A01/TEIT/OS/LA