```
#include <fcntl.h>
#include <stdio.h>
#include <sys/stat.h>
#include <unistd.h>
#include<stdio.h> int
main()
 {
             int fd,fd1;
       char * myfifo = "myfifo";
       char * myfifo1 = "myfifo1";
       char buf[1024], ch[1024];
       int words = 1, lines = 1, i=0;
       FILE *fp;
       mkfifo(myfifo, 0777);
       mkfifo(myfifo1, 0777);
          fd = open(myfifo, O_RDONLY);
       // Now this process will read from first fifo
       read(fd, buf, 1024);
       printf("Message Received by reader in FIFO1: \n%s\n", buf);

        //Now this process is analysing the read content as number of lines,
 words and characters
            while(buf[i]!='\0')
    {
      if(buf[i]==' ')
      words++;
            if(buf[i]=='\n')
      lines++;
      i++;
   }
      printf("Analysis of message in reader...\n");
      printf("Total words = %d \n",words);
      printf("Total lines = %d \n",lines);
      printf("Total characters = %d \n",i);
      sleep(2);
     //     This process has done the analysis of message and will write it into
 one text file
      fp = fopen("test.txt", "w");
      fprintf(fp,"Total words = %d \n",words);
      fprintf(fp,"Total lines = %d \n",lines);
      fprintf(fp,"Total characters = %d \n",i);
      fclose(fp);
      printf("Analysis in wrote in a file test.txt...\n");
 // now analysis successfully wrote into file and is to be read and written onto
 one buffer (ch buffer)
      i = 0;
      fp = fopen("test.txt", "r");
      while(!feof(fp))
 {
            ch[i]=fgetc(fp);
      i++;
      }

      fclose(fp);
      close(fd);
      unlink(myfifo);
 printf("%s",ch);
 // Now this process will write into second fifo by using buffer ch
      fd1=open(myfifo1,O_WRONLY);
      write(fd1,ch,1024);
```

```
        printf("Message wrote in FIFO2 by reader...\n");
        //sleep(3);
        close(fd1);
        unlink(myfifo1);
        return 0;
 }
```

OUTPUT:-

```
[root@localhost root]# ./fifo2
Message Received by reader in FIFO1:
Hello friends...
Welcome...
FIFO
Analysis of message in reader...
Total words = 4
Total lines  =  3
Total characters = 34
Analysis in wrote in a file test.txt...
Total words = 4
Total lines  =  3
Total characters = 34
ï¿½Message wrote in FIFO2 by reader...
```

```
#include <fcntl.h> #include
<sys/stat.h> #include
<sys/types.h>#include
<unistd.h> #include<stdio.h>
        int main()
        {
        int fd,fd1;
        char * myfifo ="myfifo"; char *
        myfifo1 ="myfifo1"; char
        buf1[1024]; printf("\nusage of
        fifo\n");mkfifo(myfifo, 0777);
        mkfifo(myfifo1, 0777);
          // now this process will write to first fifofd =
        open(myfifo, O_WRONLY);
        write(fd, "Hello friends... \nWelcome...\nFIFO ", 1024);
        printf("Data wrote in FIFO1 by writer\n\n\n\n\n\n");
        sleep(5);
        close(fd);
        unlink(myfifo);

        // now this process will read from second fifo
        fd1=open(myfifo1,O_RDONLY); read(fd1,buf1,1024);
        printf("Data received by FIFO2 by writer\n");
        printf("%s",buf1);
        close(fd1);
        unlink(myfifo1);

        return 0;
        }
```

OUTPUT:-

```
[root@localhost   root]#   gcc   fifo1.c   -o   fifo1
[root@localhost   root]#   gcc   fifo2.c   -o   fifo2
[root@localhost root]# ./fifo1

usage of fifo
Data wrote in FIFO1 by writer




Data received by FIFO2 by
writerTotal words = 4
Total lines  =  3 Total characters = 34
```