**Full duplex communication between two independent processes.**

#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;

}