Write To File

#include <stdio.h>

#include <string.h>

#include <fcntl.h>

#include <sys/stat.h>

#include <sys/types.h>

#include <unistd.h>

int mkfifo(const char \*pathname, mode\_t mode);

int main()

{

int fd;

char \*myfifo = "/tmp/myfifo";

mkfifo(myfifo, 0666);

char arr1[80], arr2[80];

while (1)

{

// Open FIFO for write only

fd = open(myfifo, O\_WRONLY);

// Get input from user

printf("User1: ");

fgets(arr2, 80, stdin);

// Write input to FIFO

write(fd, arr2, strlen(arr2) + 1);

close(fd);

// Open FIFO for read only

fd = open(myfifo, O\_RDONLY);

// Read the result from the other process

read(fd, arr1, sizeof(arr1));

printf("User2: %s\n", arr1);

close(fd);

}

return 0;

}

Read Form File

#include <stdio.h>

#include <string.h>

#include <fcntl.h>

#include <sys/stat.h>

#include <sys/types.h>

#include <unistd.h>

int mkfifo(const char \*pathname, mode\_t mode);

int main()

{

int fd1;

char \*myfifo = "/tmp/myfifo";

mkfifo(myfifo, 0666);

char str1[80], str2[80];

while (1)

{

// Open FIFO for read only

fd1 = open(myfifo, O\_RDONLY);

// Read input from the other process

read(fd1, str1, sizeof(str1));

printf("User1: %s\n", str1);

close(fd1);

// Open FIFO for write only

fd1 = open(myfifo, O\_WRONLY);

// Count characters, words, and lines and write to a file

FILE \*file = fopen("output.txt", "w");

fprintf(file, "Number of characters: %ld\n", strlen(str1) - 1);

fprintf(file, "Number of words: %ld\n", (long)strtok(str1, " "));

fprintf(file, "Number of lines: 1\n");

fclose(file);

// Write the content of the file to FIFO

file = fopen("output.txt", "r");

while (fgets(str2, sizeof(str2), file) != NULL)

{

write(fd1, str2, strlen(str2) + 1);

}

fclose(file);

close(fd1);

}

return 0;

}

OUTPUT