How to Execute

In order to execute the programs, first, you have to open two terminals in your Raspberry or in Ubuntu. In one of them, you'll execute the Server and in the other the client.

When you have done that you execute Server.c when you enter all the data to the server(like the image below),

```
eespunes@DESKTOP-QJ9CNA9:/mnt/d/Escriptori/Universitat/Sistemes Operatius/C/Prac_2$ ./server Can you give me a source filename, please? input.txt Can you give me a destination filename, please? inputOUT.txt Choose the request to be sent to server from options below

Enter 1 in order to send the content to Client.c

Enter 2 in order to recieve the content from Client.c
```

Then you execute Client.c.

Finally, you'll have all done.

EXECUTION

```
despunes@DESKTOP-QJ9CNA9:/mnt/d/Escriptori/Universitat/Sistemes Operatius/C/Prac_2$ ./server Can you give me a source filename, please? nut.txt
Can you give me a destination filename, please? a.txt
Can you give me a destination filename, please? a.txt
Can you give me a filename, please? a.txt

***Reply from client is OK***
eespunes@DESKTOP-QJ9CNA9:/mnt/d/Escriptori/Universitat/Sistemes Operatius/C/Prac_2$ ./server Can you give me a destination filename, please? input.txt
Can you give me a destination filename, please? input.txt
Can you give me a source filename, please? rever Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give me a source filename, please? server Can you give
```

```
eespunes@DESKTOP-QJ9CNA9:/mnt/d/Escriptori/Universitat/Sistemes Operatius/C/Prac_2$ diff input.txt a.txt
eespunes@DESKTOP-QJ9CNA9:/mnt/d/Escriptori/Universitat/Sistemes Operatius/C/Prac_2$ diff input.txt b.txt
eespunes@DESKTOP-QJ9CNA9:/mnt/d/Escriptori/Universitat/Sistemes Operatius/C/Prac_2$ diff server a
eespunes@DESKTOP-QJ9CNA9:/mnt/d/Escriptori/Universitat/Sistemes Operatius/C/Prac_2$ diff server b
```

Server.c

CODE

```
//Authors: Sofian Ben Ayata && Erik Espuñes Juberó
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
```

```
#include <fcntl.h>
   char srcfilename[100]="", dstfilename[100]="";
   scanf("%s", srcfilename);
   scanf("%s", dstfilename);
       fifo client = mkfifo(name fifo client, 0666);
       fifo server = open(name fifo server, O RDWR);
       fifo client = open(name fifo client, O RDWR);
```

```
while ((size=read(file, line, sizeof(line))) > 0) {
            write(fifo client, line, size* sizeof(char));
        char *buf = malloc(10 * sizeof(char));
        read(fifo server, buf, 10 * sizeof(char));
    } else {
        if ((file = open(dstfilename, O WRONLY|O CREAT|O TRUNC)) <</pre>
        write(fifo client, srcfilename, sizeof(srcfilename));
            write(file, line, size* sizeof(char));
                break;
        write(fifo client, "OK", 10 * sizeof(char));
    close(file);
   close(fifo server);
   close(fifo client);
return 0;
```

Client.c

CODE

```
//Authors: Sofian Ben Ayata && Erik Espuñes Juberó
#include <stdio.h>
#include <stdlib.h>
```

```
int fifo server=-1, fifo client=-1, file=-1;
fifo server = open(name fifo server, O RDWR);
if (fifo server < 0) {</pre>
    if ((file = open(filename, O WRONLY|O CREAT|O TRUNC)) < 0) {</pre>
        write(fifo client, buf, sizeof(buf));
    while (((size=read(fifo client, line, sizeof(line))) > 0)) {
        write(file, line, size* sizeof(char));
            break;
    write(fifo server, buf, sizeof(buf));
        write(fifo server, buf, sizeof(buf));
```

```
buf = malloc(10 * sizeof(char));
    read(fifo_client, buf, 10 * sizeof(char));
    printf("\n ***Reply from server is %s***\n", buf);
}
close(file);
close(fifo_server);
close(fifo_client);
return 0;
}
```