# Lab Exercise

### Make a file transfer service

- The server runs in the background by attaching '&' when running
- The client runs in the foreground and is shown on the screen
- This client should be under an infinite loop with conditional exit ("exit")
- When the name of the file is entered,
   the client reads the file and sends it to the server
- The server saves the file name received from the client by appending "\_copy"
- The file is a text file and does not have an extension
  - » ex) a.txt(X), b.exe(X), c.c(X), Aladdin(O), a(O), b(O)
- The size of file is smaller than 200,000 bytes
- The length of file name is shorter than 50 bytes.

# Lab Exercise

#### Example)

```
spl on ● SPL in 2023f/week11/p11 via C v13.2.0-gcc
\square 1s
Aladdin
             client* Makefile server.c text_copy
Aladdin_copy client.c server* text
spl on ● SPL in 2023f/week11/p11 via C v13.2.0-gcc
cat text
This is a text file
to test this week's exercise! 4
spl on ● SPL in 2023f/week11/p11 via C v13.2.0-gcc
./client localhost 1398
File Name: text
Sending text...
Sent 49 bytes.
File Name: Aladdin
Sending Aladdin...
Sent 109511 bytes.
File Name: quit
spl on ● SPL in 2023f/week11/p11 via C v13.2.0-gcc took 8s
```

```
spl on SPL in 2023f/week11/p11 via C v13.2.0-gcc

./server 1398
File Name: text
Received 49 bytes.
File Name: Aladdin
Received 109511 bytes.

*Coll

spl on SPL in 2023f/week11/p11 via C v13.2.0-gcc took 19s
!! stat text -c "%n: %s bytes"
text: 49 bytes

spl on SPL in 2023f/week11/p11 via C v13.2.0-gcc

stat Aladdin -c "%n: %s bytes"
Aladdin: 109511 bytes

spl on SPL in 2023f/week11/p11 via C v13.2.0-gcc
```

## **Exercise Submission**

- Submit your source code and Makefile
  - via iCampus
  - Bundle source code and Makefile with tar command
    - » tar.gz format

\$ tar cvzf [student\_id].tar.gz [all your files]

- We'll grade your submission with make
  - » If compilation fails, your points for this exercise will be zero