

Steps to run Project-Sync

1. Please set path to sync folder run **make** command to generate scripts “**admin.exe**” and “**client.exe**”.
2. To run server, use cmd `./admin.exe` with [Mergers] [Sorter Array] [QueueSize] [Debug] as command line arguments as given in below image.

Note : always run server/admin.exe in new terminal window, please exit the terminal window if it was used previously by the server/admin.exe.

```
arrow@SA-Desktop:~$ cd sync
arrow@SA-Desktop:~/sync$ ./admin.exe 4 2 1 1
[+]Server Socket is created.
[+]Bind to port 8888
[+]Listening....
Connection accepted from 127.0.0.1:45254
Client: req.txt 2 8
8888 -7 60 -55 4 3
200
-100 ;
Client: data.txt 2 10
-9 -8 -7 -6 -5 -100 -101
-1 -2 -3 ;
Disconnected from 127.0.0.1:45254
^Carrow@SA-Desktop:~/sync$
```

3. To run client/client.exe run cmd `./client.exe` [CID] [IP Address] [Port] as command line arguments in the respective client-side device.
4. To stop client please enter “**End**” as given below.

```
arrow@SA-Desktop:~/p$ cd ../sync
arrow@SA-Desktop:~/sync$ ./client.exe 2 127.0.0.1 8888
[+]Client Socket is created.
[+]Connected to Server.
Client: req.txt
Server: Recieved
Client: data.txt
Server: Recieved
Client: End
[-]Disconnected from server.
arrow@SA-Desktop:~/sync$ ^C
arrow@SA-Desktop:~/sync$
```

5. To observe results please open “**Output**” file in the “**sync**” folder.
6. To observe debugging please open “**debug**” file in the “**sync**” folder.
7. If any **folder copying issues**, please remove “**dfile**” present in the “**sync**” folder.
8. Server/Admin always shows the message received from the client and some client details along with its port address.
9. To exit the server please press “**Ctrl + c**” keys present on keyboard.

If any further issues in running this project, please contact **sv210094@utdallas.edu**.