The zip contains the following folder and file

-Programs

Client.c

Client.h

Helper.c

Helper.h

Server.c

Server.h

SlidingWindow.c

SlidingWindow.h

TCPHeader.c

TCPHeader.h

makefile

-supportingFile

wraparound.txt

-WriteUp.docx

-Report.docx

Options in makefile:

DEBUG

OPTION

BONUS

DEBUG :

yes : will display all the print out messages.

Eg : make DEBUG=yes

OPTION:

timeout : to simulate High Latency

dupack : to simulate Packet Drop

dupandtimeout : to simulate High Latency and Packet Drop

Eg : make OPTION=timeout

BONUS:

WA : to enable 'wrap-around sequence number protection'

Eg : make BONUS=WA

With out providing the any of the option will basically disable the feature.

Steps to be followed for execution

1) Open teminal. Navigate to the program folder.

2) type make <options> and press enter

3) Two executable will be created. client & server

4) Arguments required for server

arg1 - port number

arg2 – receiver window size

5) Argument required for client

arg1 - host name

arg2 - port number

arg3 – source filename

arg4 – destination filename

The server will continue to be ready to request files after each request. However if changing the option in make , please recompile the server again before executing.

NOTE : When using the timeout option I have put a sleep for two seconds. So the transfer may take a lot of time for huge files. It may seem that the program has hung , but it just take a few minutes to complete the transfer. The same applies for all options using timeout.