CS232 Operating Systems Assignment 04: Introduction to Socket Programming

1 Client

2 Server

3 Makefile

```
file = gp05_A4
all: *.c *.h
                                     make client
                                     make server
client: client.c
                                     gcc client* -l pthread -o client.comp
server: server.c
                                     gcc server* -1 pthread -o server.comp
wrap:
                                     make $(file).pdf
                                     make cleantex
                                     tar -zcvf gp05_A4.tar.gz ./*.c ./*.h ./Makefile ./gp05_A4.pdf ./*.tex
assign4: \$(file).pdf
maketex: assign4
f(file).pdf: *.tex *.c Makefile *.h
                                      pdflatex $(file)
                                     pdflatex $(file)
                                      bibtex $(file).aux
                                      pdflatex $(file)
                                     pdflatex $(file)
 cleantex:
                                     rm - f *.aux $(file).log $(file).lof $(file).toc $(file).bbl $(file).blg $(f
 clear:
                                     rm - f *.comp
```

4 Comments

4.1 Deficiencies

- 1. Indicated their group in the excel sheet before submission deadline 10 marks
- 2. Files named correctly 10 marks
- 3. PDF submitted correctly 10 marks
- 4. Codes compile without errors and warnings 10 marks
- 5. Client communicates with server 10 marks
- 6. /list command working correctly 10 marks
- 7. /msg command working correctly 10 marks
- 8. /quit command working correctly 10 marks
- 9. linked list implementation is thread safe 10 marks
- 10. no memory leaks- 10 marks

4.2 Credits

- 1. Credits to Muhammad Shahzain for the motivation to do the assignment
- 2. Credits for LATEX colored font to

3. Dr. Musabbir Abdul Majeed's group project 4 zip for CS 340/MATH 321, support with makefiles.

4.3 General Comments

Enjoyed learning about sockets, considering enrolling in the networking course next year. Really wish had more time for the assignment. [and a live-in campus but we can't always get what we want :(]