## Computer Networks

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## Lab 6: A client-server application for file transfer

In this lab, you will gain familiarity with socket programming by modifying the a simple client-server code provided in the textbook. This lab is to be done individually.

## 1 File transfer over a C socket

Save the given client-server code client.c and server.c, preferably, in separate "client" and "server" folders. Compile and test the client-server code. For compiling, you can invoke: gcc srcfilename -o execfilename

- 1. Integrate your code for file transfer which you wrote in the previous lab to client.c and server.c so that once the server receives a string GET, it sends a specified file to the client ("sample.txt" for example).
- 2. Implement command-line switch "f" such that user can provide filename to serve from terminal. Test the code on a large file. Comapre the sent and received files.
- 3. Do the previous step using a UDP socket. Are the two files the same? Why or why not?

**Submission** Prepare a file that contains your name, AU ID and email address giving it a name that contains your ID. Your server must be able to send this file to a specified IP address.