# Indian Institute of Information Technology, Allahabad
## Course: Networking Concepts
## M.Tech. (IT) – 1$^{st}$ Semester
## Lab Assignment #5
## Assignment Date: 12/11/2025

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**Note: Implement the programs in C/C++ or Python.**

1. Write a client-server program using stream socket that provides file transfer facility using stream socket. Your client allows a user to request a file from the server. On request the server transfer the file to the client. The client process needs to create a file and store the data received through the client socket thereafter close the file. You may utilize the following call to realize the above problem: **open(), creat(), read(), write()**

   **Usage:** $./a.out [server_address] [port_number] [file_name.txt]

   Where server_address: IP address of the server.

   Port_number: is the port number of the server socket.

   file_name.txt is the name of requested file.

   receive.txt is the name of the file in which client store the received file.

2. Implement concurrent server for the above FTP application. A concurrent server is a server which can serve any number of clients concurrently. You may utilize the following call to realize the above problem:

   • **fork()**