

MidTerm Assignment

IITK-FLIX

Electrical Engineers Association

** Due: 15th December, 2023 **

Question 1: Basics of Socket Programming

Refer to the UDP and TCP socket programming examples given in Section 2.7 of Computer Networking A Top-Down Approach 8th Edition, Kurose and Ross. Using the above examples, create UDP and TCP client and server applications where:

- The client reads a line of characters from its keyboard and sends the data to the server
- The server receives the data and converts the characters into uppercase
- Server sends the modified data to the client
- The client receives the modified data and displays the line on its screen

Question 2: IITK-FLIX

Design a simple live video streaming application using socket programming. Imagine your laptop as both the server and client. Create server code to transmit live video captured from your webcam. The client should initiate a connection request to the server and receive the live video stream in response.

MENTORS:

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