

National University of Computer and Emerging Sciences, Lahore Campus



Course:	Computer Networks Lab	Course Code:	CL3001
Program:	BS(Computer Science)	Semester:	Fall 2022
Duration:	90 minutes	Total Marks:	30
Date	25-10-22	Weight	30%
Section:		Pages:	1
		Roll No.:	

Do not ask any questions. Cheating or copying someone's code will result in a serious penalty. Marks will be deducted if instructions are not followed
Submit your code in a folder named as your roll number e.g., "201234" containing the client and server codes on the following path:

\\xeon/Fall 2022/Salman Shoaib/CN/Midterm/Submissions (Tuesday)

Question 1

There is a text file "FileSend.txt" on the server that the client needs to download. But due to the bandwidth issues the server first asks the client in terms of sentences of how many sentences to send per transmission (packet segmentation). The server then divides the file into sentences of that many chunks and keeps on sending them until all of the file content is sent. After completing the file transfer the server sends a message: "File Sent!" which causes the client to disconnect and the received file is saved as "FileRecv.txt" by the client.

The server should run infinitely and clients may come and go. Write the code for client and server to complete the given task. There will only be one client at a time.