

Assignment 1

No	Task	Outcome of the task
1 (50p)	<ul style="list-style-type: none"> You can develop your codes in C#, Java, Python Develop a Server socket application running on port 555 Your Server application can support the operations below during the client connection <ol style="list-style-type: none"> When the client connects to server, server says a Welcome message Server asks to Client for user name and password and if they match to user:CMPE322 and pass:bilgiuni then, says to client "you are OK, for asking me 'date, time, capTurkey, quit'" If client sends to server the 4 messages below, server responds as below; <ol style="list-style-type: none"> date: date of the time time: time of the now capTurkey: Capital of Turkey quit: closes connection and says to client "Bye bye" Upload only your project code file(s) as "servercode.txt", not your full project 	Developing a server socket
2 (50p)	<ul style="list-style-type: none"> Develop a Client socket application which can connect to your server application Your client supports the below operations(like the above telnet operations) <ol style="list-style-type: none"> Login with user and password date time capTurkey quit Upload only your project code file(s) as "clientcode.txt", not your full project 	Developing a client socket
3	<ul style="list-style-type: none"> Start a video/audio capturing tool on a host (your voice telling what you are testing during the demo) <ol style="list-style-type: none"> Start server, run "netstat" and shows the server is listening of port 555. Start Client app Start Wireshark network capture Show the running of the commands below and the results on the screen clearly <ol style="list-style-type: none"> Login with user and password date time capTurkey quit 	Showing your projects in Demo

	<p>5. Stop Wireshark network capture, save as “capture.pcap” and upload to learn</p> <ul style="list-style-type: none"> • Find and show/say client-server communication packages including message like welcome, date, time, Ankara etc • Save the recording file as “recording-demo.xxx” as in a playable video format in a default apps in any OS. Recoding should be max 5 mins. 	
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Notes:

- You can work as a team, up to 8 person.
 - Create a file named “team_members.txt”, write your team members’s name and student IDs into the file then upload to Learn.
 - During submission, only one of the team members should upload the assignment.
- Late uploads -1 min or 1 day- will not be graded.
- Upload your 5 project files by one by. Do not compress all files into one file.