**CSE 471**

**DATA COMMUNICATIONS AND COMPUTER NETWORKS**

**YEDITEPE UNIVERSITY**

**FALL 2024**

**LABWORK 1**

Below, you can find the description of your labwork for today. You can also find the expected output of this code in the Application Walkthrough section.

You are required to write a client and server with the given helper classes that implements a basic Application Layer Protocol and gather today’s and yesterday’s date and time information from the server. A network protocol comprises a defined set of rules that determine the transmission, formatting, and reception of data. These rules enable various computer network components such as computers, servers, routers, and virtual machines to communicate effectively, even when they have varying infrastructures. Hence, you are required to perform below steps for this labwork:

• The server should be started first

• Client sends the request to the server by using keywords such as

“Today” and “Yesterday”

• Server receives the request and according to the keyword, gathers

date and time and sends it back to the client

• Client gathers the response incoming from the server

**Application Walkthrough**

**Client**

Enter the date: today

From server: today

Strings match!

Received today's date from the server -> 05/11/2024 18:03:18

**Server**

Received: today

Sending back the date…

OR

**Client**

Enter the date: yesterday

From server: yesterday

Strings match!

Received yesterday's date from the server -> 04/11/2024 18:03:18

**Server**

Received: yesterday

Sending back the date…