



Computer Engineering Department

Networks1 (10636454)

Programming HW 2

UDP File Transfer

Instructor name:
Dr. Eng. Saed TARAPIAH

Academic Year: **2022-2023**

Semester: **Summer**

Credit Hours: **3**

Date: **20/July/2023**

Student Name:.....

Serial number: :رقم تسلسلي :.....

Registration Number:

Section:.....

Total Exam Mark: **15**

Exam Weight: **15%**

Question	Points	ILO's	ILO's%	Question Grade	Required Time
Q1	15				
Student Grade					

Q1: [15 points]

In this project A GUI for File Transfer Application by using UDP Socket that runs on a Network. You will Write it in Java.

Deadline: 4/August/2023 midnight

Group members: Maximum of 2 students.

Requirements:

1. Using JAVA code only.
2. Using UDP socket class.
3. Use GUI for both client and server sides.
 - a. As much as you provide better GUI as much high mark you will gain.
4. Add all reliability functions on top of UDP to provide reliable file transfer, such as
 - a. Sequence number
 - b. Acknowledgments
 - c. timers
 - d. packets retransmission.
 - e.
5. Run the codes/ programs on two separated hosts on the network
6. Add statistics on real time, such as: (more statistics: more marks)
 - a. Number of sent packets
 - b. Original Size of the file
 - c. Size of already sent data
 - d. Percentage of file transfer
 - e. Number of lost packets
 - f. Number of re-transmitted packets
 - g.

Good Luck