

Department of Electrical and Computer Engineering

ENCS3320-Computer Networks

**Project#2 due 6/6/2021**

**Important: Each screenshot should include the date and time of your computer.**

**This is a group project, so you are allowed to work in groups of max 3 students**

**Part1:**

Using Wireshark, capture few TCP, DHCP and ICMP packets. Show the packets, write some comments about each picture and explain at least 3 fields of each packet.

**Part2:**

Using packet tracer, implement a network that has the following components:

1. **At least five routers**
2. **At least 7 subnets**
3. **At least 12 PCs**
4. **At least 4 switches**
5. **Use RIP routing protocol**

To assign IP addresses of the routers and PCs, use the IP address from your student ID as follows

Assume your id is 118zyxw,

Consider the numbers z, y, x and w as **deciemal**

You have the subnet 118.0.0.0/24

If your ID is 1181234 then the IP is 118.0.0.0/24

Use this subnet to get at least 7 subnets

Use ping to show that the network is connected and the routing is working

Use ping from PC to a PC in the same subnet as well as that you can reach an address in a different subnet. show that all subnets are reachable from the different subnets

**You have to submit the packet tracer file as well as a report (doc or pdf) on moodle (itc.birzeit.edu) that contains Screenshots and with detailed explanations**

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