BIRZEIT UNIVERSITY

Faculty of Engineering and Technology
Electrical and Computer Engineering Department
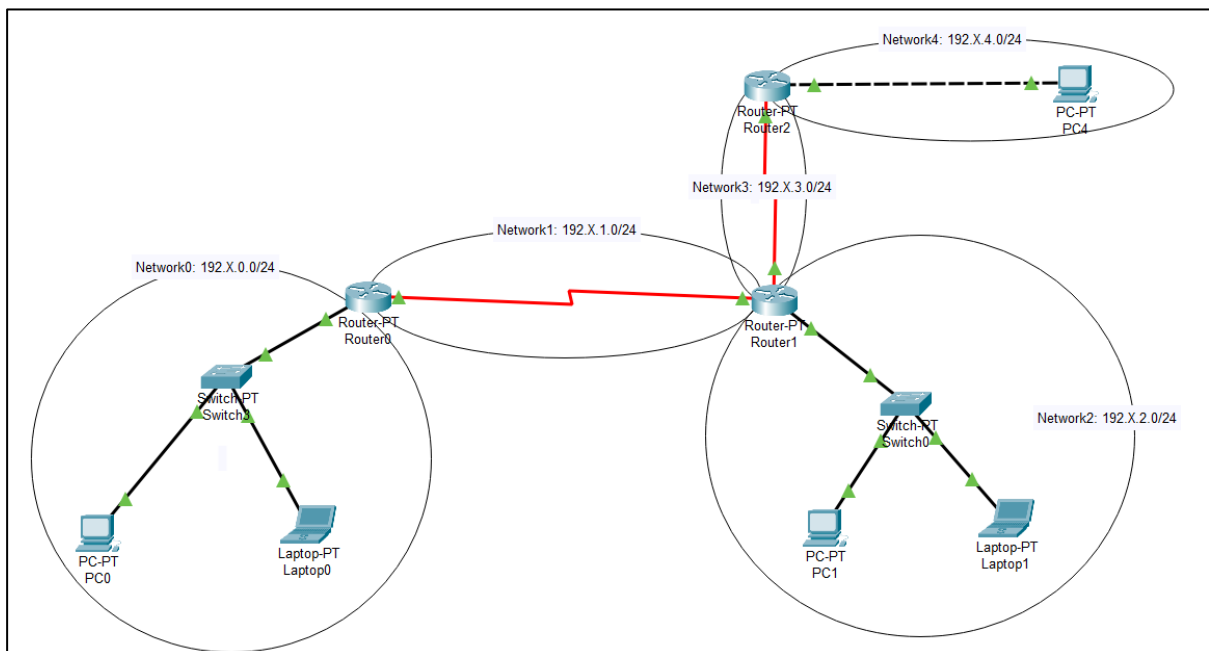Computer Network Laboratory ENCS4130 (Term 1242)

TODO 1: Router Configuration and Static Routing

Question 1: Given the following topology, Where X in the given IP addresses ranges depends on your university ID (Example: 1161361) X=61 according to this ID.

Do the following:

- **Build the Network Topology:** Set up the network by connecting routers, PCs, and laptops as per the given design.
- **Assign IP Addresses:** Configure appropriate IP addresses for all routers, PCs, and laptops to ensure proper communication.
- **Configure Static Routing:** Set up static routes on all routers to ensure data can travel between different networks.
- **Verify Network Connectivity:** Use tools like ping to test and confirm that all devices can communicate with each other.
- **Check the Routing Tables:** Inspect the routing tables of all routers to confirm that each router has exactly five route entries, corresponding to the five networks in the topology.

What to submit:

- YourFirstName_YourIDNumber_SectionNumber**.pkt** file (<u>Packet Tracer File</u>)

Notes:

- Mark 0 will be given to those who don't Include the University ID in their solution.
- There will be marks on the file name of submission.

Deadline:

- Thursday, 20-03-2025, 11:59 PM.

Where to submit:

- Submit to ToDo No. 1 through Ritaj.

Good Luck