CS610P Assignment 1 Solution - Fall 2026

Task 1: LAN Design and IP Configuration

Using Cisco Packet Tracer, create a LAN by connecting four PCs, one laptop, one printer, and one server to a central switch using appropriate Ethernet cables. Configure each device with the IP address and subnet mask from the addressing scheme below.

Device	IP Address	Subnet Mask
PC0	192.168.1.1	255.255.255.0
PC1	192.168.1.2	255.255.255.0
PC2	192.168.1.3	255.255.255.0
PC3	192.168.1.4	255.255.255.0
Laptop0	192.168.1.5	255.255.255.0
Printer0	192.168.1.6	255.255.255.0
Server0	192.168.1.7	255.255.255.0

All devices are on the same network (192.168.1.0 with subnet mask 255.255.255.0), so every device can reach every other device through the central switch.

Task 2: Connectivity Testing

Open the command prompt on PC0 and run the ping command to test connectivity with Server0 using its assigned IP address:

ping 192.168.1.7

A successful test shows replies from 192.168.1.7 with 0% packet loss, which confirms that PC0 and Server0 are connected through the switch.

How to Submit the Solution

Take screenshots of the network topology (Task 1) and the ping result (Task 2). Paste the screenshots into an MS Word document, save it as your solution file, and upload it on VU-LMS. The screenshots must come from your own Packet Tracer run.