COMSATS University Islamabad,Lahore Campus

Fall 2023

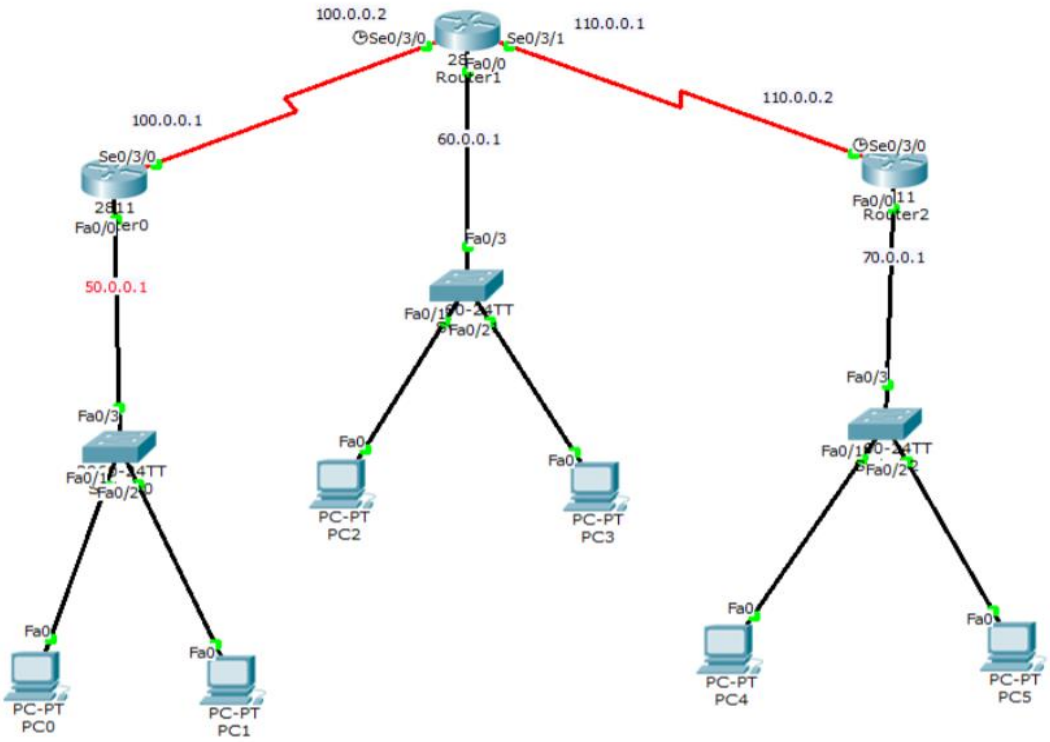
Assignment # 1

Course Title:	Data Communication and Computer Networks				Course Code:	CSC339	Credit Hours:	4(3,1)
Lab Instructor:	Sana Latif				Programme Name:	BS (CS,SE)		
Semester:	5th	Batch:		Section:	A,B	Date:	October 6/2023	
Student's Name:					Reg. No.			

1. **Read the below instructions carefully**
2. **No cheating. In case of caught, I will deduct 8 marks. Meaning, you will get 2 marks even if thework is complete.**
3. **Submit the packet tracer .pkt file only. The file must be renamed as SP20-BXX-XXX_Name_Assignment1.pkt.**
4. **Submission Deadline: October 16,2023.**

Question # 1: Recreate the scenario given below based on the following conditions

- Use Open Shortest Path First Protocol on the respective devices
- Clearly mention the assigned IP's against every device.



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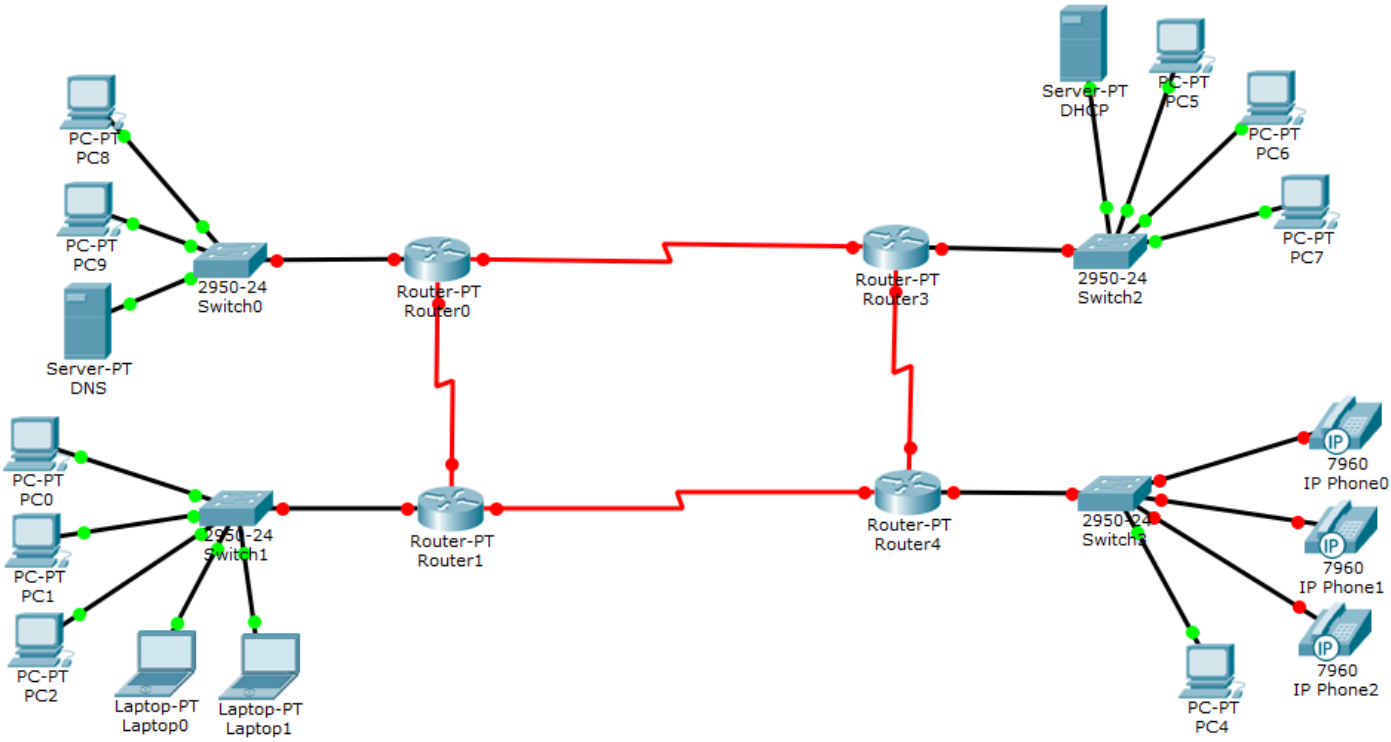
Assignment # 2

Course Title:	Data Communication and Computer Networks			Course Code:	CSC339	Credit Hours:	4(3,1)
Lab Instructor:	Sana Latif			Programme Name:	BS (CS,SE)		
Semester:	5th	Batch:		Section:	A,B	Date:	October 6/2023
Student's Name:				Reg. No.			

1. **Read the below instructions carefully**
2. **No cheating. In case of caught, I will deduct 8 marks. Meaning, you will get 2 marks even if the work is complete.**
3. **Submit the packet tracer .pkt file only. The file must be renamed as SP20-BXX-XXX_Name_Assignment1.pkt.**
4. **Submission Deadline: October 16,2023.**

Question No. 1: Recreate the below given network keeping in mind the following constraint:



- The DNS Server must be accessible everywhere
- Apply DHCP using a router on Router 1 and 4
- Apply DHCP using a DHCP server in Router 3 network
- Apply router protocol using the RIP on all of the routers. Make sure the communication across the entire network is possible.