The University of Jordan, Comp. Eng. Dept.
Spring 2023: Networks lab: Experiment 3
IP Addressing: Version 6
(Prelab Report)

Student Name:	Section #:

In this report, you are required to fill the addressing table for problem 1 after performing the subnetting for routers' interfaces and PCs based on what you've learned about IPv6 subnetting and the IPv6 prefix provided.

- Your ISP has given you the **IPv6 prefix 2000:ABDF:9C2:5000/52** to use in building the network of the University of Jordan. Tip: The subnets' numbers should start from 1. Consider the scenario, as shown in Figure 1 (a) and (b) in the problem sheet, which helps you practice configuring IPv6 subnetting on routers and PCs.

Table 1. Required IPv6 configuration after performing subnetting.

Device	Interface	IPv6 Address	Link-local	Default Gateway	Connected with
University of Jordan	S0/0/0(DCE)	2000:ABDF:9C2:5100::1/56	FE80::1	--	School of Science
	S0/0/1(DCE)	2000:ABDF:9C2:5200::1/56	FE80::1	--	School of Engineering
	S0/1/0(DCE)	2000:ABDF:9C2:5300::1/56	FE80::1	--	School of Business
	S0/1/1(DCE)	2000:ABDF:9C2:5400::1/56	FE80::1	--	School of Law
School of Science	S0/0/0	2000:ABDF:9C2:5100::2/56	FE80::2	--	University of Jordan
	G0/0	2000:ABDF:9C2:5110::1/60	FE80::2	--	PC0
	G0/1	2000:ABDF:9C2:5120::1/60	FE80::2	--	PC1
School of Engineering	S0/0/0	2000:ABDF:9C2:5200::2/56	FE80::3	--	University of Jordan
	S0/0/1	2000:ABDF:9C2:5210::1/60	FE80::3	--	Computer Department
	G0/0	2000:ABDF:9C2:5220::1/60	FE80::3	--	PC4
	G0/1	2000:ABDF:9C2:5230::1/60	FE80::3	--	PC5
School of Business	S0/0/0	2000:ABDF:9C2:5300::2/56	FE80::4	--	University of Jordan
	G0/0	2000:ABDF:9C2:5310::1/60	FE80::4	--	PC6
	G0/1	2000:ABDF:9C2:5320::1/60	FE80::4	--	PC7
School of Law	S0/0/0	2000:ABDF:9C2:5400::2/56	FE80::5	--	University of Jordan
	G0/0	2000:ABDF:9C2:5410::1/60	FE80::5	--	PC8
	G0/1	2000:ABDF:9C2:5420::1/60	FE80::5	--	PC9
Computer	S0/0/0		FE80::6	--	School of Engineering
	G0/0	2000:ABDF:9C2:5211::1/64	FE80::6	--	PC2

Department	G0/1	2000:ABDF:9C2:5212::1/64	FE80::6	--	PC3
PC0	Fa0	2000:ABDF:9C2:5110::2 /60	--	FE80::2	Science G0/0
PC1	Fa0	2000:ABDF:9C2:5120::2/60	--	FE80::2	Science G0/1
PC2	Fa0	2000:ABDF:9C2:5211::2/64	--	FE80::6	Computer G0/0
PC3	Fa0	2000:ABDF:9C2:5212::2/64	--	FE80::6	Computer G0/1
PC4	Fa0	2000:ABDF:9C2:5220::2/60	--	FE80::3	Engineering G0/0
PC5	Fa0	2000:ABDF:9C2:5230::2/60	--	FE80::3	Engineering G0/1
PC6	Fa0	2000:ABDF:9C2:5310::2/60	--	FE80::4	Business G0/0
PC7	Fa0	2000:ABDF:9C2:5320::2/60	--	FE80::4	Business G0/1
PC8	Fa0	2000:ABDF:9C2:5410::2/60	--	FE80::5	Law G0/0
PC9	Fa0	2000:ABDF:9C2:5420::2/60	--	FE80::5	Law G0/1